



RIVIAN AUTOMOTIVE, LLC

Application for Certification - Part 1 (Update)

2024 Model Year

EPA Manufacturer Code: RIV

Test Group: RRIVT00.0192

Durability Group: N.A. Evaporative Family: N.A.

Test Group Description:	Battery Electric Vehicle
Applicable Standards:	U.S. EPA: Tier 3 Bin 0 MDPV CA: ZEV MDV
Carlines Covered:	Rivian R1T Dual Large (21in) Rivian R1S Dual Large (21in) Rivian R1S Dual Large (22in) Rivian R1T Dual Large (22in) Rivian R1T All-Terrain Dual Large (20in) Rivian R1S All-Terrain Dual Large (20in) Rivian R1T Performance Dual Large (21in) Rivian R1S Performance Dual Large (21in) Rivian R1S Performance Dual Large (22in) Rivian R1T Performance Dual Large (22in) Rivian R1T All-Terrain Performance Dual Large (20in) Rivian R1S All-Terrain Performance Dual Large (20in) Rivian R1T Dual Standard (21in) Rivian R1S Dual Standard (21in) Rivian R1T Dual Standard (22in) Rivian R1S Dual Standard (22in) Rivian R1T Dual Standard Plus (21in) Rivian R1S Dual Standard Plus (21in) Rivian R1T Dual Standard Plus (22in) Rivian R1S Dual Standard Plus (22in) Rivian R1T All-Terrain Dual Standard Plus (20in) Rivian R1S All-Terrain Dual Standard Plus (20in) Rivian R1T Performance Dual Standard Plus (21in) Rivian R1S Performance Dual Standard Plus (21in) Rivian R1T Performance Dual Standard Plus (22in) Rivian R1S Performance Dual Standard Plus (22in) Rivian R1T All-Terrain Performance Dual Standard Plus (20in) Rivian R1S All-Terrain Performance Dual Standard Plus (20in)
Document Date:	04/02/2024

For Questions, Contact:
S. Zaker, SepZaker@rivian.com

Mr. Robert Peavyhouse
Compliance and Innovative Strategies Division
Office of Mobile Sources
Environmental Protection Agency
2000 Traverwood, Ann Arbor, MI 48105

Subject: MY 2024 Rivian Medium-Duty Vehicle Initial Application for issuance of Certificate of Conformity for Test Group RRIVT00.0192.

Rivian believes that all vehicles within this test group comply with all applicable regulations within Code of Federal Regulations Title 40 Parts 85, 86, 600, and California Code of Regulations Title 13.

Vehicle Category:	Medium Duty Passenger Vehicle (8532 lbs. GVW)
Test Group:	RRIVT00.0192
Evaporative Family:	N/A
Federal Standard:	Tier 3 Bin 0
California Standard:	ZEV

Test Group Description:

1 - Rivian R1
9 - 9 Module Battery
2 - 2 AC motors

Vehicles Covered by this certificate:

Rivian R1S Dual Large (21in)	Rivian R1T Dual Standard (21in)
Rivian R1S Dual Large (22in)	Rivian R1S Dual Standard (21in)
Rivian R1T Dual Large (22in)	Rivian R1T Dual Standard (22in)
Rivian R1T All-Terrain Dual Large (20in)	Rivian R1S Dual Standard (22in)
Rivian R1S All-Terrain Dual Large (20in)	Rivian R1T Dual Standard Plus (21in)
Rivian R1T Performance Dual Large (21in)	Rivian R1S Dual Standard Plus (21in)
Rivian R1S Performance Dual Large (21in)	Rivian R1T Dual Standard Plus (22in)
Rivian R1S Performance Dual Large (22in)	Rivian R1S Dual Standard Plus (22in)
Rivian R1T Performance Dual Large (22in)	Rivian R1T All-Terrain Dual Standard Plus (20in)
Rivian R1T All-Terrain Performance Dual Large (20in)	Rivian R1S All-Terrain Dual Standard Plus (20in)
Rivian R1S All-Terrain Performance Dual Large (20in)	Rivian R1T Performance Dual Standard Plus (21in)
	Rivian R1S Performance Dual Standard Plus (21in)
	Rivian R1T Performance Dual Standard Plus (22in)
	Rivian R1S Performance Dual Standard Plus (22in)
	Rivian R1T All-Terrain Performance Dual Standard Plus (20in)
	Rivian R1S All-Terrain Performance Dual Standard Plus (20in)

Your early review and issuance of the certificate will be greatly appreciated. If you have any questions, please email me at sepzaker@rivian.com or my phone number available on CDX.

Sepehr Zakeresfahani
Sr. Manager, Range, Wireless & Material Compliance



Mr. Robert Peavyhouse
Compliance and Innovative Strategies Division
Office of Mobile Sources
Environmental Protection Agency
2000 Traverwood, Ann Arbor, MI 48105

Subject: MY 2024 Rivian Medium-Duty Vehicle OBD letter for issuance of Certificate of Conformity for Test Group RRIVT00.0192.

Rivian is a manufacturer of Battery Electric Vehicle, including R1T and R1S. Battery Electric Vehicles are exempt from OBD II requirements.

Vehicle Category:	Medium Duty Passenger Vehicle (8532 lbs. GVW)
Test Group:	RRIVT00.0192
Evaporative Family:	N/A
Federal Standard:	Tier 3 Bin 0
California Standard:	ZEV

Test Group Description:

1 - Rivian R1
9 - 9 Module Battery
2 - 2 AC motors

Vehicles Covered by this certificate:

Rivian R1S Dual Large (21in)	Rivian R1T Dual Standard (21in)
Rivian R1S Dual Large (22in)	Rivian R1S Dual Standard (21in)
Rivian R1T Dual Large (22in)	Rivian R1T Dual Standard (22in)
Rivian R1T All-Terrain Dual Large (20in)	Rivian R1S Dual Standard (22in)
Rivian R1S All-Terrain Dual Large (20in)	Rivian R1T Dual Standard Plus (21in)
Rivian R1T Performance Dual Large (21in)	Rivian R1S Dual Standard Plus (21in)
Rivian R1S Performance Dual Large (21in)	Rivian R1T Dual Standard Plus (22in)
Rivian R1S Performance Dual Large (22in)	Rivian R1S Dual Standard Plus (22in)
Rivian R1T Performance Dual Large (22in)	Rivian R1T All-Terrain Dual Standard Plus (20in)
Rivian R1T All-Terrain Performance Dual Large (20in)	Rivian R1S All-Terrain Dual Standard Plus (20in)
Rivian R1S All-Terrain Performance Dual Large (20in)	Rivian R1T Performance Dual Standard Plus (21in)
	Rivian R1S Performance Dual Standard Plus (21in)
	Rivian R1T Performance Dual Standard Plus (22in)
	Rivian R1S Performance Dual Standard Plus (22in)
	Rivian R1T All-Terrain Performance Dual Standard Plus (20in)
	Rivian R1S All-Terrain Performance Dual Standard Plus (20in)

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Sepehr Zakeresfahani
Sr. Manager, Range, Wireless & Material Compliance





14600 Myford Road
Irvine, CA 92606

Mr. Robert Peavyhouse
Compliance and Innovative Strategies Division
Office of Mobile Sources
Environmental Protection Agency
2000 Traverwood, Ann Arbor, MI 48105

Subject: MY 2024 Rivian Medium-Duty Vehicle Durability letter for issuance of Certificate of Conformity for Test Group RRIVT00.0192.

Rivian is a manufacturer of Battery Electric Vehicle, including R1T and R1S. Battery Electric Vehicles (no tailpipe emissions) are exempt from emissions equipment durability requirements.

Vehicle Category:	Medium Duty Passenger Vehicle (8532 lbs. GVW)
Test Group:	RRIVT00.0192
Evaporative Family:	N/A
Federal Standard:	Tier 3 Bin 0
California Standard:	ZEV

Test Group Description:

1 - Rivian R1
9 - 9 Module Battery
2 - 2 AC motors

Vehicles Covered by this certificate:

Rivian R1S Dual Large (21in)	Rivian R1T Dual Standard (21in)
Rivian R1S Dual Large (22in)	Rivian R1S Dual Standard (21in)
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Sepehr Zakeresfahani
Sr. Manager, Range, Wireless & Material Compliance





14600 Myford Road
Irvine, CA 92606

Mr. Steven Hada
Emissions Certification and Compliance Division (ECCD)
Air Resources Board Laboratory
9528 Telstar Avenue, El Monte, CA 91731

Subject: MY 2024 Rivian Medium-Duty Vehicles Initial Application for issuance of an Executive Order for Test Group RRIVT00.0192.

Rivian believes that all vehicles within this test group comply with all applicable regulations within Code of Federal Regulations Title 40 Parts 85, 86, 600, and California Code of Regulations Title 13.

Vehicle Category:	Medium Duty Passenger Vehicle (8532 lbs. GVW)
Test Group:	RRIVT00.0192
Evaporative Family:	N/A
Federal Standard:	Tier 3 Bin 0
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Test Group Description:

1 - Rivian R1
9 - 9 Module Battery
2 - 2 AC motors

Vehicles Covered by this certificate:

Rivian R1S Dual Large (21in)	Rivian R1T Dual Standard (21in)
Rivian R1S Dual Large (22in)	Rivian R1S Dual Standard (21in)
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Your early review and issuance of the certificate will be greatly appreciated. If you have any questions, please email me at sepzaker@rivian.com or my phone number available on DMS.

Sepehr Zakeresfahani
Sr. Manager, Range, Wireless & Material Compliance



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01.00.00 Communications

01.01.00 Mailing Information

Rivian Automotive, LLC
14600 Myford Road
Irvine, CA 92606
Attention: Sepehr Zakeresfahani

01.01.01 Certification Information

Rivian Automotive, LLC
14600 Myford Road
Irvine, CA 92606

01.01.02 Responsible official

Primary Contact:
Sepehr Zakeresfahani, Sr. Manager – Range, Wireless, and Material Compliance
sepzaker@rivian.com

02.00.00 Confidential Information

02.01.00 Statement of confidentiality

02.02.00 Test vehicle selection

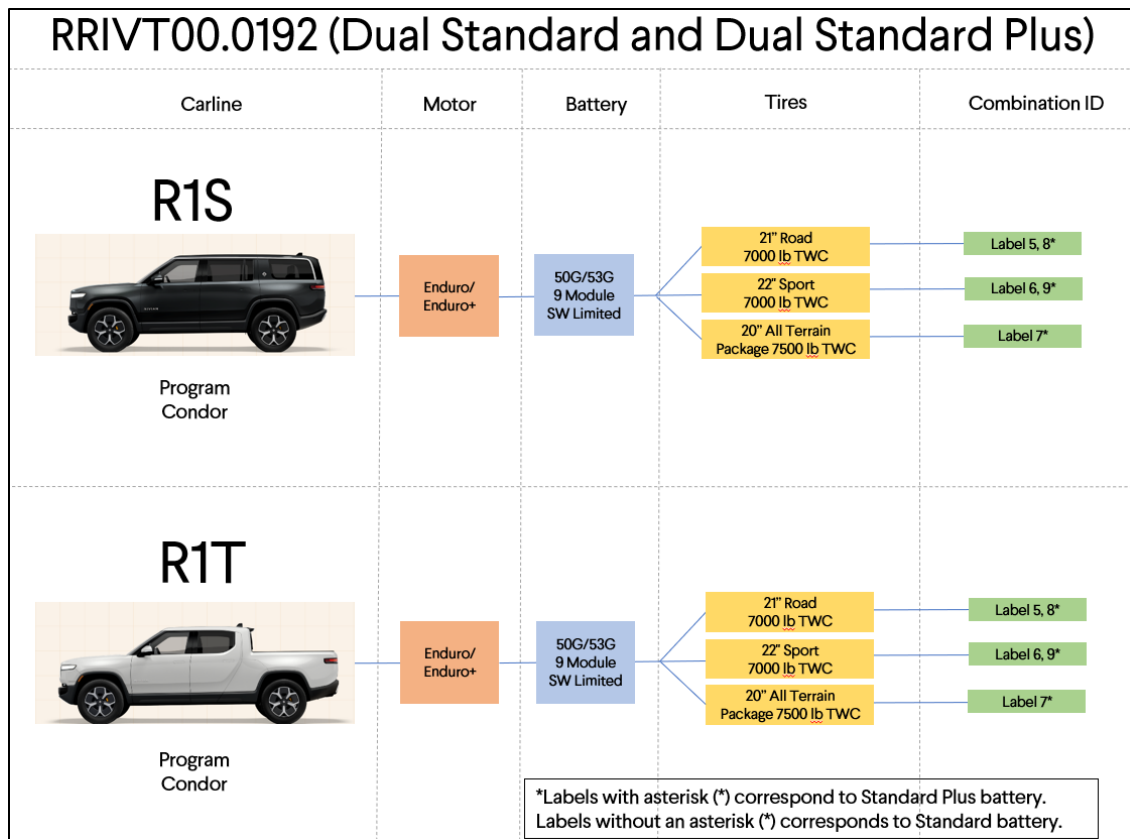
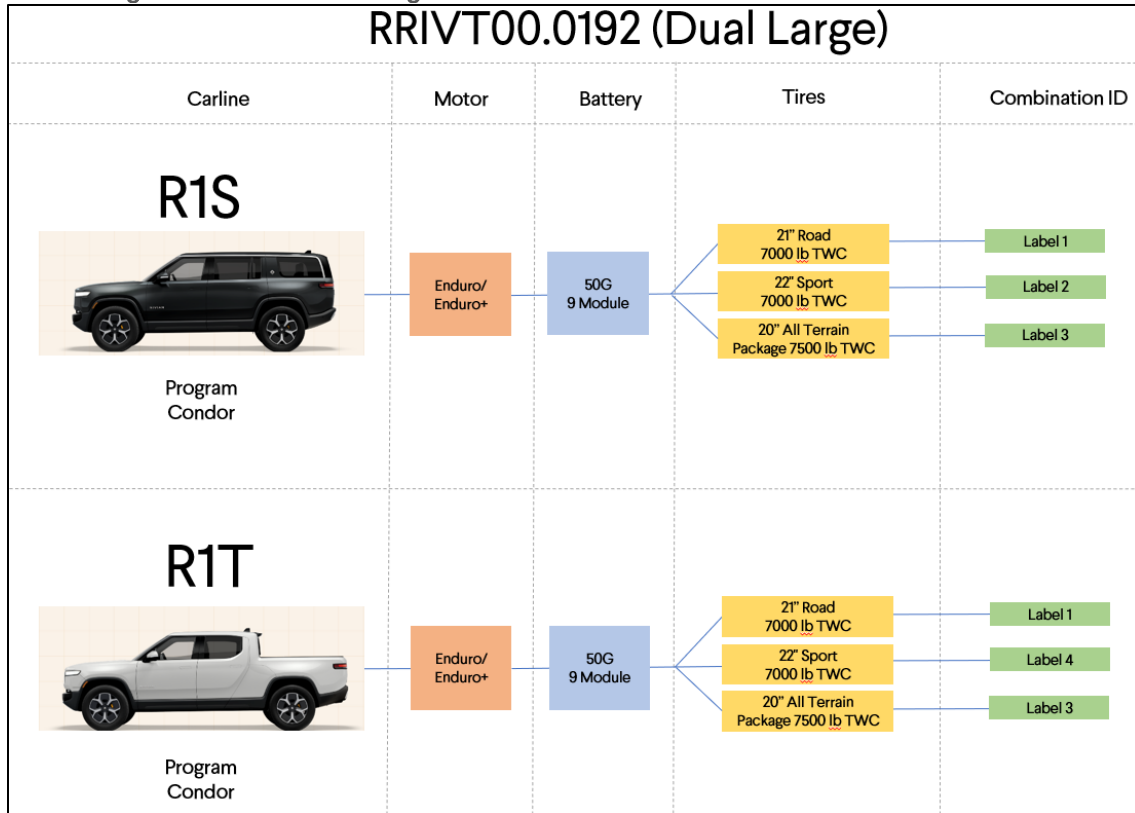
02.03.00 Projected annual model-year sales

03.00.00 Facilities, equipment, and test procedures

03.01.00 (Reserved)

03.02.00 Battery pre-conditioning procedures (if necessary)

03.03.00 Configurations and Sub configurations



Program	A [lbf]	B [lbf/mph]	C [lbf/mph ²]	Test Weight [lbs]	Tire Size
R1S All-Terrain Dual Large (20in)* R1S All-Terrain Dual Standard Plus (20in)*	60.02	0.3434	0.02458	7,500	275/65R20
R1S Dual Large (21in)* R1S Dual Standard (21in) R1S Dual Standard Plus (21in)*	45.22	0.6456	0.01633	7,000	275/55R21
R1S Dual Large (22in)* R1S Dual Standard (22in) R1S Dual Standard Plus (22in)*	55.14	0.3691	0.02153	7,000	275/50R22
R1T All-Terrain Dual Large (20in)* R1T All-Terrain Dual Standard Plus (20in)*	54.71	0.6796	0.01952	7,500	275/65R20
R1T Dual Large (21in)* R1T Dual Standard (21in) R1T Dual Standard Plus (21in)*	44.76	0.5587	0.01817	7,000	275/55R21
R1T Dual Large (22in)* R1T Dual Standard (22in) R1T Dual Standard Plus (22in)*	55.67	0.3376	0.02298	7,000	275/50R22

*The above programs are relevant to their corresponding Performance variant, e.g R1S All-Terrain Dual Large (20in) and R1S All-Terrain Performance Dual Large (20in) share the same coastdown values, test weight, and tire size.

03.04.00 Test Procedures

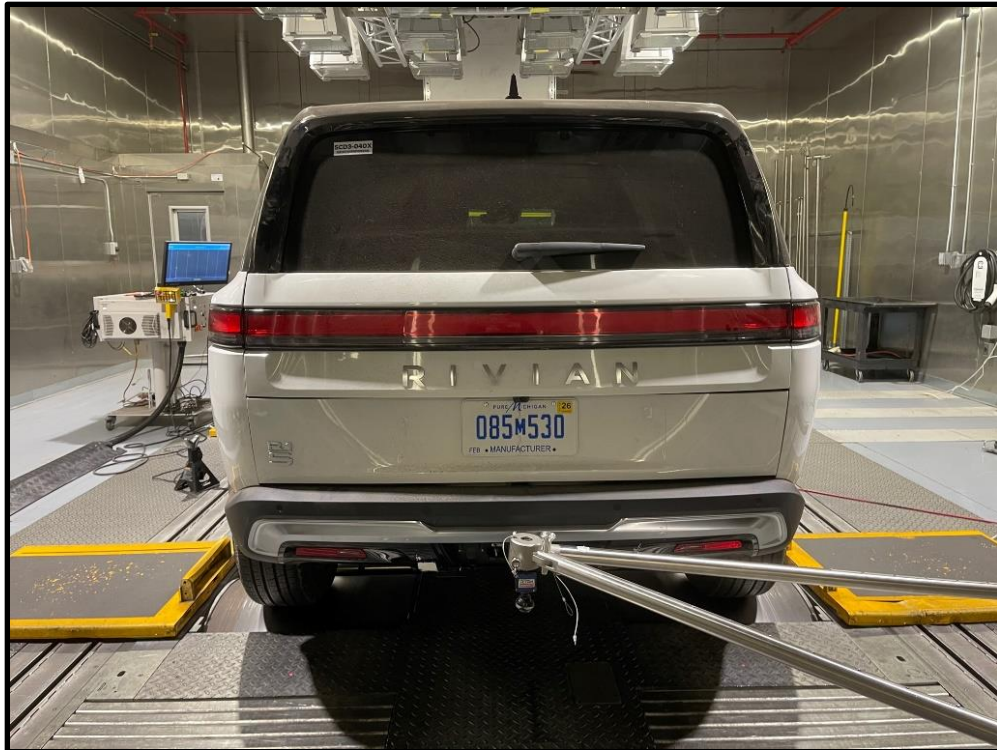
03.04.01 Range Test Procedures

03.04.02 Description of Coastdown

03.05.00 Special Test Instructions

Vehicle Setup:

Bleyer rigid bar fixation system. Front bar fixed to the front tow hook, and rear bar fixed to the tow hitch receiver.

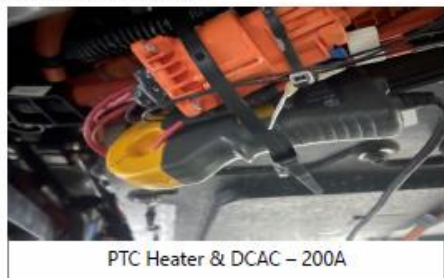


Instrumentation:

Battery voltage and current measurement were taken using HBM power analyzer & Hioki CT684X-05 current clamps.

- Clamps installed to minimize number of measured current channels.
- Current clamp sizes determined by maximum combined circuit current.

INSTRUMENTATION



PTC Heater & DCAC – 200A



Front Drive Unit – 500A



Power Analyzer



Rear Drive Unit – 500A



DC/DC Converter, AC Compressor & On-Board Charger – 200A

AC Level 2 240 V/ 48 A (11.5 kW) charger was used for charging.

03.05.00 Statement of Compliance

Every vehicle which is covered by this application conforms to US EPA Federal Tier 3 Bin 0 regulations applicable to new Medium-Duty Vehicles and state of California ZEV regulations applicable to new Medium-Duty Vehicles for the 2024 Model Year.

04.00.00 (Reserved)

05.00.00 (Reserved)

06.00.00 Maintenance

06.01.00 Test vehicle scheduled maintenance

06.02.00 Recommended customer maintenance schedule

Rivian Service is our proactive and flexible approach to vehicle care, centered around uptime for our fleet operators. Through remote diagnostics, a large fleet of mobile service vans staffed with Rivian Technicians and a network of service centers deliver rapid care with minimal inconvenience to the fleet operator. Rivian maintenance intervals are determined by onboard prognostics. Vehicle and environment sensors measure or model the remaining life of maintenance items. Operators are informed when maintenance is approaching or due, scheduling necessary maintenance items only. Our fleet of mobile service vans can perform most vehicle care needs at the operator facilities or wherever the vehicle might be. In many instances, the fleet operator won't even have to be present, so can carry on with their day. Mobile service is available anywhere in the US and Canada. As we expand into other markets, our suite of Rivian vehicle care capabilities, including mobile service, will continue to be a key component of our strategy.

Time till repair (year)	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
Miles to repair equivalent	12.5K	25K	37.5K	50K	62.5K	75K	87.5K	90K	102.5K	115K
R1T Maintenance Schedule										
Multi-point inspection	X	X	X	X	X	X	X	X	X	X
Drive unit & gearbox fluid lubricant									X	

This table is an example and may not represent the final customer experience.

06.03.00 Lubricants and heater fuels if any

Transmission Oil:

BOT 350 M3 transmission fluid for dry electric drive units.

Typical Characteristics:

Test	Method	Units	
SAE Grade		-	75W
Density @ 15C, Relative	ASTM D1298	g/ml	0.852
Appearance Visual		-	clear
Viscosity, Kinematic 100°C	ASTM D445	mm²/s	6.3
Viscosity, Kinematic 40°C	ASTM D445	mm²/s	32
Viscosity Index		-	154
Viscosity, Brookfield @ -40°C	ASTM D2983	mPa.s (cP)	10000
Pour Point	ASTM D97	°C	-51
Flash Point, COC	ASTM D92	°C	226

Coolant: L228

Performance of L288 According to ASTM D3306

Table 1 – ASTM D3306 Results

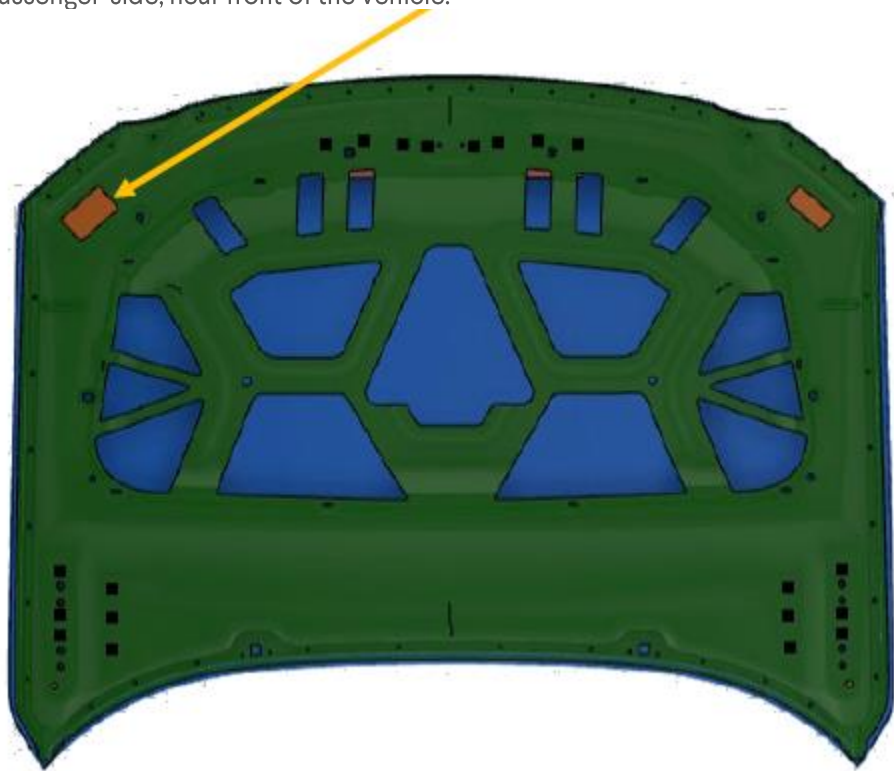
Item			ASTM D3306 Type I	CCI L288
Color			Distinctive	Yellow
Relative Density 15.5/15.5°C			1.110 ~ 1.145	1.128
Freezing Point °C	50 vol% in DI water		-36.4 max.	-37
Boiling Point °C	50 vol% in DI water		108 min.	109
Ash content mass%			5 max.	1.7
pH	50 vol% in DI water		7.5 ~ 11.0	7.6
Chloride μg/g			25 max.	<25
Water mass%			5 max.	3.8
Reserve Alkalinity mL			Report	8.0
Effect on Automotive Finish			No Effect	Pass
Corrosion in Glassware	Weight Loss ⁽¹⁾ mg/Specimen	Copper	10 max.	0.2
		Solder	30 max.	4.3
		Brass	10 max.	1.9
		Steel	10 max.	0.7
		Cast Iron	10 max.	1.4
		Aluminum	30 max.	+0.2
Simulated Service Test	Weight Loss ⁽¹⁾ mg/Specimen	Copper	20 max.	0.7
		Solder	60 max.	6.9
		Brass	20 max.	5.9
		Steel	20 max.	0.2
		Cast Iron	20 max.	3.3
		Aluminum	60 max.	0.1
Corrosion of Cast Aluminum Alloys at Heat-Rejecting Surfaces mg/cm ² /week			1.0 max.	0.1
Foaming	Volume mL		150 max.	20
	Break Time s		5 max.	3
Cavitation-Erosion Rating for pitting, cavitation, and erosion of the water pump			8 min.	9

Note (1): A plus sign designates weight gain.

07.00.00 Vehicle Emission Control Information (VECI) and Environmental

07.01.00 VECI Label locations

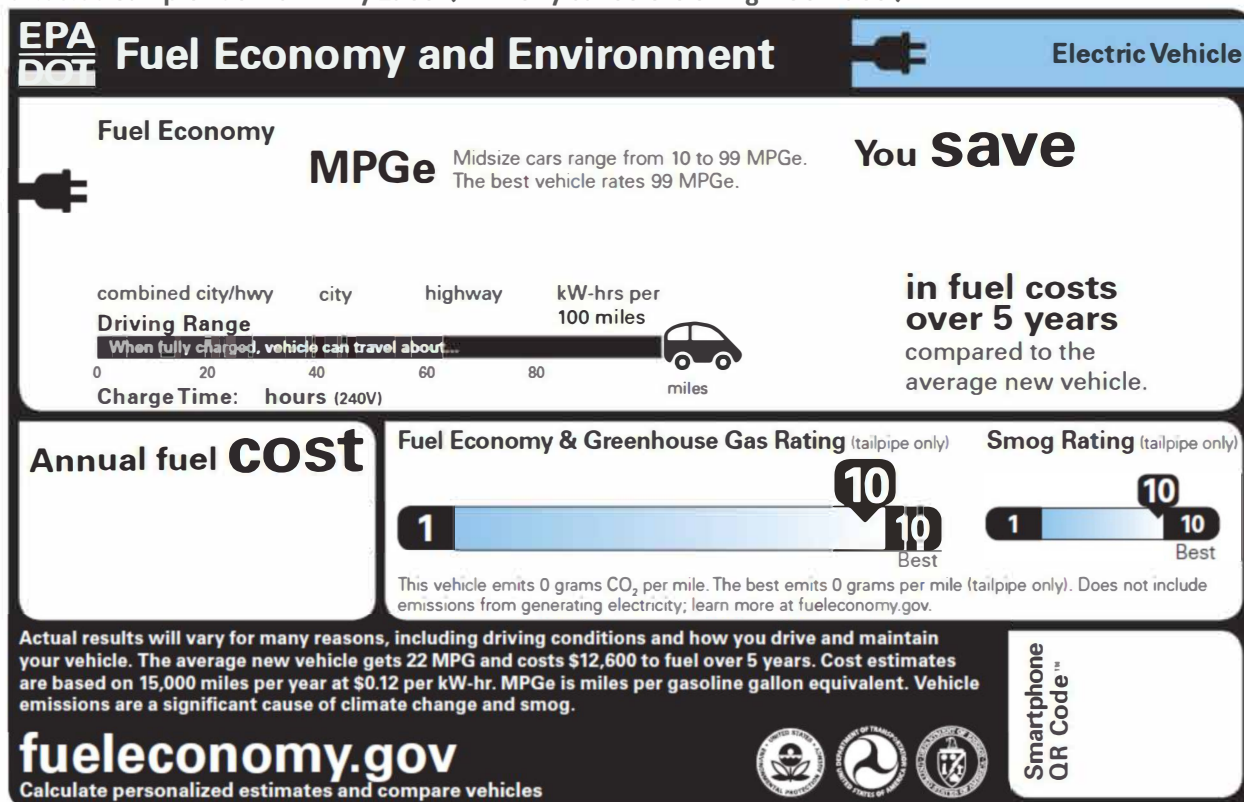
Under-hood, passenger-side, near front of the vehicle.



07.02.00 Sample VECI labels (MY2024 Sample Label):



07.03.00 Sample Fuel Economy Label (Formerly called the Smog Index label)



07.04.00 Statement of compliance

Every vehicle which is covered by this application conforms to US EPA Federal Tier 3 Bin 0 regulations applicable to new Medium Duty Passenger Vehicles and state of California ZEV regulations applicable to new Medium-Duty Vehicles for the 2024 Model Year.

08.00.00 General technical description

08.01.00 Description of Propulsion System

See 08.01.01 through 08.01.06

08.01.01 Description of Vehicle Architecture

08.01.02 Description of Drive Unit Architecture

08.01.03 Description of Motor(s)

08.01.04 Description of Gearbox(s)

08.01.05 Description of Inverter(s)

08.01.06 Description of Drivetrain(s)

08.03.00 Description of Batteries

08.03.01 Battery charging capacity

Battery pack nominal capacity for Large Pack is 360 Ah based on a constant current C/5 discharge rate. Battery pack nominal capacity Ah for Standard and Standard Plus are currently being tested and will be included in an updated application. Large: 135kWh. Standard Plus: 121.3 kWh. Standard: 105.9 kWh.

08.03.02 Self-discharge information

Rivian estimates the average self-discharge rate of the battery is less than 4% per month.

08.03.03 Description of thermal management system

The thermal management system for the high voltage battery is a liquid coolant system. A pump circulates coolant thru the battery and a refrigerant-cooled chiller to extract heat and lower the temperature of the battery. In cold weather, an in-line heating element is used to heat the coolant to raise the temperature of the battery.

08.03.04 Definition of end-of-life

The battery warranty for in vehicle use is 8 years or 150k miles, whichever occurs first. See section 08.03.05 for information on reuse strategy.

08.03.05 Description of battery disposal plan

Safe battery removal and discharge by Rivian service is recommended. Rivian service will determine which battery components meet standards for reuse. Rivian prioritizes the remanufacture of battery components into equivalent vehicle parts, then consumption in 2nd life applications. For components which do not meet the necessary standards, Rivian approved partners will transport, break down and recycle all materials used within the battery.

Rivian is pursuing UL 1973 certification of vehicle battery modules to enable their reuse for 2nd life grid storage applications. Rivian also plans to develop a process to evaluate the suitability of modules from field returned packs for reuse for grid storage applications in line with UL 1974 (Standard for Evaluation for Repurposing Batteries).

If a facility other than one approved by Rivian intends to dispose of the HV Battery or components, the vehicle owner and/or facility assume the responsibility to comply with any local or federal standards that may apply. A certificate from the recycler should be obtained as proof the materials were properly and legally disposed of.

08.04.00 Description of Controller/Inverter

See Section 08.01.05

08.05.00 Description of Transmission

See Section 08.01.04

08.06.00 Description of climate control system

- Rivian's climate control is a Dual Zone system with Automatic Temperature control.
- HVAC predominantly includes Defrost mode, Panel mode, and Floor mode (or any combination of these three).
- The vehicle could be remotely conditioned to a comfortable climate setpoint using a Mobile Application.
- The system consists of four electronically controlled face vent to direct airflow around passengers.
- The recirculation door is independently controlled by the passengers.
- Auto humidity control.
- Auto/manual blower fan control.
- The system is equipped with Air Conditioning and PTC heater to provide adequate heating and cooling for individual zones.

08.06.01 Electric Heat Pump

N/A

08.06.02 (Reserved)

08.06.03 Climate control system logic

HVAC software has multiple modes which can be selected based on user preference:

- In Manual Mode, the user has complete control on blower speed, temperature, and airflow distribution to face or feet. Recirculation of air is also manually controlled by the user.
- In Auto mode, the software provides adequate heating and cooling requests to control the breathing temperature of both driver and passenger to the requested setpoint. In this mode, the airflow distribution and the blower speeds are automatically selected to maintain the desired temperature from the screen. The software estimates the breathing temperature of individual passenger based on airflow through ducts, In-Cabin sensors, external ambient temperature sensors, and solar load sensors. Recirculation of air inside the cabin is automatically selected based on humidity level inside the cabin.
- Additionally, defrost or demist mode is provided to the user for a clear view while driving. During defog mode, the software supplies conditioned air towards the windshield based on the dew point calculation. If the desired mode is Defrost, the PTC (Positive Temperature Coefficient) heater blows hot air towards the windshield to clear frost.

08.06.04 (Reserved)

08.07.00 Description of Regenerative Braking System

The regenerative braking system can use electric propulsion motor to convert the vehicles kinetic energy to electrical energy which is stored in the vehicles high voltage battery.

08.07.01 Control logic

The regenerative control logic uses two main inputs, acceleration pedal position and vehicle speed to determine a desired regenerative braking torque. Regenerative torque is limited when the vehicle experiences low wheel traction events e.g. ice or snow.

08.07.02 Percentage of braking performed on road by each axle

The percentage of braking performed on road by each axle is constantly changing and redistributing. It is based on the driver demanded torque and has been optimized for vehicle dynamics and range attributes.

08.07.03 Overlap of friction brakes and regenerative braking

One pedal driving by default, and in this mode, fully releasing the pedal yields the maximum regen allowable in the level selected. As the driver manually increases primary service brake pressure and friction braking torque, the vehicle regen level will proportionally ramp down to 0 Nm. The ramp profile is affected by many factors, such as those described in 08.07.01. When auto hold is active and the vehicle approaches standstill, the braking torque will blend from motors to friction brakes.

08.08.00 Description of charger

The Rivian R1T and R1S are capable of conductive charging using Electric Vehicle Supply Equipment (EVSE) off-board chargers for the following charge methods:

- AC Level 1 Charging at 120 V / 12 A
- AC Level 2 Charging at 240 V / 48 A
- DC Fast Charging at up to 210 kW

For Level 1 and Level 2 charging, the vehicle is equipped with an On-Board Charger that will convert the single-phase alternating current from the EVSE into DC current.

The vehicle is equipped with a SAE J1772 Combo CCS inlet, located at the front left corner of the vehicle, and covered by a charge port door.

08.08.01 Proper recharging procedures

Detailed instructions can be found in the owner's guide.

1. Put the vehicle in park (P) or unlock the vehicle.
2. Open the charge port door, located at the front left corner of the vehicle.
3. Plug the charger connector from the Electric Vehicle Supply Equipment (EVSE) into the vehicle's charge inlet so that the connector is fully seated and latched.
4. Follow any instructions provided by the EVSE to begin the charging session.
5. When the charging session is complete, It is indicated by the vehicle's center touchscreen and by an indicator light at the vehicle's charge inlet.
6. Stop the charge via the vehicle touchscreen or button at the charge port, or follow any instructions provided by the EVSE to end the charging station.
7. Remove the charger connector and close the charge port door.

Charging starts automatically. There may be a short delay if the battery requires heating or cooling.

NOTE: When the vehicle is plugged in but not actively charging, it draws energy from the charger instead of using the battery.

The charge port light color indicates the charging status:

White (solid), Ready.
White (pulsing), Starting to charge.
Green (pulsing), Charging.
Green (solid), Charge Complete.
Blue (solid), Charge Scheduled.
Red (solid), Error.
Red (pulsing), Error.

To stop the charging session:

- Select Stop Charge from Energy menu.
- Unplug the charge cable and return the plug to the charger.

Signs of discharged 12-volt batteries include the following:

- Doors and storage areas will not unlock.
- Vehicle does not respond to key fob.
- Lighting will not illuminate.
- Displays will not power up.

To jump start the 12-volt batteries:

- Remove the trailer hitch cover to access the jump start wire harness at the rear of the vehicle.
- Remove the round access panel to the right of the trailer hitch.
- Pull out the jump start wire harness.
- Connect the positive lead (red) to the red lead on the jump start wire harness and negative lead (black) to the black lead on the jump start wire harness.

Once energized, you can unlock the vehicle and power up the vehicle displays. If the vehicle battery has drained to 0%, open the charge port and charge as soon as possible.

08.08.02 Power requirements necessary to recharge vehicle

The Rivian R1T and R1S complies with industry standard SAE J1772 for AC Level 1 (120 VAC) and AC Level 2 (240 VAC) charging.

AC Level 1 charging requires a conventional 110-120 Volt AC grounded outlet capable of the rating of the EVSE to be used. A portable EVSE cord set that is capable of AC Level 1 charging is included with the vehicle.

AC Level 2 charging requires a 220-240 Volt AC outlet capable of the rating of the EVSE to be used.

08.09.00 Accessories which draw energy from the batteries

Energy from the high voltage battery is used to power the electric heater and electric air conditioning. Energy is drawn by an on-board DC-DC converter that converts the high voltage to 14 Volts DC to maintain the low voltage battery system and power 12 Volt systems. Energy is also drawn by an on-board DC-AC converter to provide AC power to NEMA 15-5 outlets located in the vehicle.

08.10.00 Other unique features (e.g. solar panels)

N/A

08.11.00 Description of warning system(s) for maintenance / malfunction

The Rivian vehicles communicate maintenance and malfunction needs to the driver through easy-to-read and timely notifications. If issues do occur, the notification system uses a combination of telltales, texts, and visuals to explain the situation. Our notifications are simple to understand, communicate when the vehicle needs service, and alerts customer if an issue arises. The customer leaves the experience feeling confident

knowing the system explains the proper actions to take. Any notifications that appear in the driver's instrument cluster retire to the center display so the driver can recall still relevant notifications later.

The Rivian R1S and R1T provide warning tell-tale lights on the driver's display for minor and major defects. A message and audible tone may also be provided for some major defects. Detailed descriptions of the warnings can be found in the owner's guide.

08.11.01 Cut off terminal voltages for prevention of battery damage

Battery management control system is programmed to prevent a state of under-voltage or over-voltage per the voltage limits defined by Rivian. Contactor opens and DTCs are set when voltage of the 9 module 135 kWh battery is below 216 V or above 459 V.

09.00.00 (Reserved)

10.00.00 (Reserved)

11.00.00 Starting and shifting schedules

12.00.00 (Reserved)

13.00.00 (Reserved)

14.00.00 (Reserved)

15.00.00 (Reserved)

16.00.00 (Reserved)

17.00.00 California requirements

17.01.00 Statement of compliance

Every vehicle which is covered by this application conforms to US EPA Federal Tier 3 Bin 0 regulations applicable to new Medium Duty Passenger Vehicles and state of California ZEV regulations applicable to new Medium-Duty Vehicles for the 2024 Model Year.

17.01.01 General statement

Rivian confirms that the production vehicles covered by this application will be substantially the same as the vehicles tested for the purposes of this application.

17.01.02 Drivability statement

As of 01/01/2006, This statement is no longer included in the California Exhaust Emission Standards and Test Procedures.

17.02.00 Supplemental Data and Certification Review Sheets

See end of document for ZEV Supplemental Sheets

17.03.00 (Reserved)

17.04.00 Credits

17.04.01 Description of multi-manufacturer arrangements

N/A

17.04.02 Credit calculation

17.05.00 Vehicle Safety

The Rivian architecture comprises a body attached to a skateboard frame structure. The primary structure encompasses engineered crush zones used to, in case of crash, absorb the crash energy. The “safety cage” comprises of body pillars, side impact bars, floor sills and roof rails (working with other structural elements) and with an advanced optimized restraint system to help properly restrain and protect occupants.

17.05.01 All information for safe operation of vehicle

See sections 03.04.00, 03.05.00, and 11.00.00.

17.05.02 Information on safe handling of battery system

The high voltage battery is to be serviced and handled only by technicians authorized by Rivian.

17.05.03 Description of emergency procedures

Emergency procedures are described in the owner’s manual. Please refer to the owner’s manual for details. Emergency procedures for first responders are described in the Emergency Response Guide provided for this vehicle.

17.06.00 (Reserved)

Test Results:

R1S Dual Large (21in)

EPA EV Multicycle Calculator (SAE J1634 Oct 2012)

Manufacturer: **RIVIAN**

Carline: **R1S**

Model Year: **2023**

Vehicle: **R1S 040X 21"**

Test Number

Comments: **ALL PURPOSE**

Lab: **FEV**

Test Date: **3/10/2023**

D.Good March 8, 2016

Recharge

Cycle	Energy (Wh)	Distance (mi)	ECdc_cyc	Kuwt	Kwgt	AC WattHrs
UDDS1	1992.98	7.422	268.52	67.13	4.09	151758
UDDS2	1901.59	7.428	256.00	64.00	84.03	
UDDS3	1841.31	7.429	247.85	61.96	81.36	
UDDS4	1850.89	7.436	248.91	62.23	81.70	
HWY1	2892.33	10.249	282.21	141.10		
HWY2	2805.91	10.246	273.84	136.92		
SS1	94517.37	278.856	338.95			
SS2	22929.4	67.436	340.02			
TOTAL	130731.77	396.502				

K-Factors	UDDS1	UDDS2	UDDS3	UDDS4	HWY1	HWY2
Unweighted	0.250	0.250	0.250	0.250	0.500	0.500
Weighted	0.015	0.328	0.328	0.328	NA	NA

Results	Range (mi)	AC Wh/mi	MPGe	kWh/100mi
UDDSu	512.03	296.39		
UDDSw	520.45	291.59	115.5902	29.1590
HWY	470.21	322.74	104.4332	32.2742

EPA version

kWh/100mi
29.15905
32.27420

MCT Results	whdc/mi	mi/kwhdc	mi/kwhac
UDDS	251.1903	3.9810	3.4295
HFEDS	278.0258	3.5968	3.0984

Range

	0.7 Adj	Adj	MPGe	MPGe
Factor	0.7000	0.7071	0.7000	0.7071
City	364.31	368.00	80.9131	81.7312
Hwy	329.15	332.48	73.1033	73.8424
Combined	348.49	352.01	77.20	77.98

R1S Dual Large (22in)

EPA EV Multicycle Calculator (SAE J1634 Oct 2012)

Manufacturer: RIVIAN

As used by EPA laboratory

Carline: R1S

Model Year: 2023

D.Good March 8, 2016

Vehicle: R1S 040X 22"

Test Number

Comments: ALL PURPOSE

Lab: FEV

Test Date: 3/27/2023

Cycle	Energy (Wh)	Distance (mi)	ECdc_cyc	Kuwgt	Kwgt	Recharge AC WattHrs
UDDS1	2012.85	7.402	271.93	67.98	4.17	151994
UDDS2	1957.20	7.442	262.99	65.75	86.32	
UDDS3	1913.71	7.438	257.29	64.32	84.45	
UDDS4	1913.00	7.443	257.02	64.26	84.36	
HWY1	3027.09	10.274	294.63	147.31		
HWY2	2962.08	10.264	288.58	144.29		
SS1	94881.56	261.954	362.21			
SS2	22478.80	61.693	364.37			
TOTAL	131146.29	373.911				

K-Factors	UDDS1	UDDS2	UDDS3	UDDS4	HWY1	HWY2
Unweighted	0.250	0.250	0.250	0.250	0.500	0.500
Weighted	0.015	0.328	0.328	0.328	NA	NA

					EPA version
Results	Range (mi)	AC Wh/mi	MPGe	kWh/100mi	kWh/100mi
UDDSu	499.97	304.01			
UDDSw	505.78	300.52	112.1567	30.0517	30.05170
HWY	449.75	337.96	99.7320	33.7956	33.79557

MCT Results	whdc/mi	mi/kwhdc	mi/kwhac
UDDS	259.2977	3.8566	3.3276
HFEDS	291.6012	3.4293	2.9590

Range				
	0.7 Adj	Adj	MPGe	MPGe
Factor	0.7000	0.7093	0.7000	0.7093
City	354.04	358.75	78.5097	79.5539
Hwy	314.82	319.01	69.8124	70.7410
Combined	336.39	340.87	74.34	75.33

R1S All-Terrain Dual Large (20in)

EPA EV Multicycle Calculator (SAE J1634 Oct 2012)

Manufacturer: **RIVIAN**

As used by EPA laboratory

Carline: **R1S**

Model Year: **2023**

D.Good March 8, 2016

Vehicle: **R1S 040X 20"**

Test Number

Comments: **All-Purpose**

Lab: **FEV**

Test Date: **4/11/2023**

Cycle	Energy (Wh)	Distance (mi)	ECdc_cyc	Kuwt	Kwgt	Recharge AC WattHrs
UDDS1	2257.62	7.447	303.16	75.79	5.24	150826
UDDS2	2184.59	7.440	293.63	73.41	96.18	
UDDS3	2081.98	7.445	279.65	69.91	91.61	
UDDS4	2089.22	7.456	280.21	70.05	91.79	
HWY1	3315.74	10.239	323.84	161.92		
HWY2	3216.93	10.259	313.58	156.79		
SS1	99200.76	251.402	394.59			
SS2	16325.41	41.292	395.37			
TOTAL	130672.25	342.980				

K-Factors	UDDS1	UDDS2	UDDS3	UDDS4	HWY1	HWY2
Unweighted	0.250	0.250	0.250	0.250	0.500	0.500
Weighted	0.017	0.328	0.328	0.328	NA	NA

Results	Range (mi)	AC Wh/mi	MPGe	kWh/100mi	EPA version kWh/100mi
UDDSu	451.90	333.76			
UDDSw	458.79	328.74	102.5265	32.8744	32.87443
HWY	410.01	367.86	91.6245	36.7860	36.78603

MCT Results	whdc/mi	mi/kwhdc	mi/kwhac
UDDS	284.8167	3.5110	3.0419
HFEDS	318.7059	3.1377	2.7184

Range	0.7 Adj	Adj	MPGe	MPGe
Factor	0.7000	0.7036	0.7000	0.7036
City	321.16	322.79	71.7685	72.1336
Hwy	287.01	288.47	64.1371	64.4633
Combined	305.79	307.34	68.12	68.47

R1T Dual Large (22in)

EPA EV Multicycle Calculator (SAE J1634 Oct 2012)

Manufacturer: RIVIAN

Carline: R1T 033X

Model Year: 2023

Vehicle: R1T-033X 22"

Test Number

Comments: All-Purpose

Lab: FEV

Test Date: 5/10/2023

As used by EPA laboratory

D.Good March 8, 2016

Cycle	Energy (Wh)	Distance (mi)	ECdc_cyc	Kuwt	Kwt	Recharge AC WattHrs
UDDS1	2097.34	7.455	281.33	70.33	4.48	151213
UDDS2	2029.86	7.444	272.68	68.17	89.45	
UDDS3	1933.61	7.450	259.54	64.88	85.13	
UDDS4	1925.46	7.451	258.42	64.61	84.77	
HWY1	3115.85	10.253	303.89	151.94		
HWY2	3003.17	10.257	292.79	146.40		
SS1	101716.58	271.994	373.97			
SS2	15800.31	42.338	373.20			
TOTAL	131622.18	364.642				

K-Factors	UDDS1	UDDS2	UDDS3	UDDS4	HWY1	HWY2
Unweighted	0.250	0.250	0.250	0.250	0.500	0.500
Weighted	0.016	0.328	0.328	0.328	NA	NA

Results	Range (mi)	AC Wh/mi	MPGe	kWh/100mi	EPA version kWh/100mi
UDDSu	491.14	307.88			
UDDSw	498.89	303.10	111.2012	30.3099	30.30992
HWY	441.18	342.75	98.3380	34.2747	34.27465

MCT Results	whdc/mi	mi/kwhdc	mi/kwhac
UDDS	263.8303	3.7903	3.2992
HFEDS	298.3411	3.3519	2.9176

Range	Unadj	Adj	MPGe	MPGe
Factor	0.7000	0.7217	0.7000	0.7217
City	349.22	360.05	77.8409	80.2551
Hwy	308.83	318.40	68.8366	70.9715
Combined	331.04	341.31	73.51	75.79

R1S Dual Standard (21in)

EPA EV Multicycle Calculator (SAE J1634 Oct 2012)

Manufacturer: RIVIAN

Carline: R1S

Model Year: 2024

Vehicle: R1S 040X 21" Standard

Test Number

Comments: ALL PURPOSE

Lab: ATDS

Test Date: 2/20/2024

As used by EPA laboratory

D.Good March 8, 2016

Cycle	Energy (Wh)	Distance (mi)	ECdc_cyc	Kuwt	Kwgt	Recharge AC WattHrs
UDDS1	2031.32	7.44	272.90	68.23	5.23	123495
UDDS2	1959.94	7.46	262.65	65.66	85.87	
UDDS3	1909.50	7.41	257.81	64.45	84.29	
UDDS4	1912.37	7.42	257.80	64.45	84.29	
HWY1	2989.68	10.27	291.02	145.51		
HWY2	2894.93	10.25	282.53	141.27		
SS1	80922.69	231.55	349.48			
SS2	11457.34	32.81	349.20			
TOTAL	106077.78	314.610				

K-Factors	UDDS1	UDDS2	UDDS3	UDDS4	HWY1	HWY2
Unweighted	0.250	0.250	0.250	0.250	0.500	0.500
Weighted	0.019	0.327	0.327	0.327	NA	NA

Results	Range (mi)	AC Wh/mi	MPGe	kWh/100mi
UDDSu	403.66	305.94		
UDDSw	408.49	302.32	111.4888	30.2317
HWY	369.90	333.86	100.9550	33.3862

EPA version
kWh/100mi
30.23174
33.38616

MCT Results	whdc/mi	mi/kwhdc	mi/kwhac
UDDS	259.6798	3.8509	3.3078
HFEDS	286.7752	3.4871	2.9953

Range	0.7 Adj	Adj	MPGe	MPGe
Factor	0.7000	0.7000	0.7000	0.7000
City	285.95	285.95	78.0422	78.0422
Hwy	258.93	258.93	70.6685	70.6685
Combined	273.79	273.79	74.54	74.54

R1S Dual Standard Plus (21in)

EPA EV Multicycle Calculator (SAE J1634 Oct 2012)

Manufacturer: RIVIAN
Carline: R1S
Model Year: 2024
Vehicle: R1S 2390 21" Standard Plus
Test Number:
Comments: ALL PURPOSE
Lab: FEV
Test Date: 3/6/2024

As used by EPA laboratory

D.Good March 8, 2016

Cycle	Energy (Wh)	Distance (mi)	ECdc_cyc	Kuwt	Kwgt	Recharge AC WattHrs
UDDS1	2006.02	7.446	269.41	67.35	4.38	143457
UDDS2	1921.27	7.454	257.75	64.44	84.52	
UDDS3	1862.31	7.429	250.68	62.67	82.20	
UDDS4	1883.48	7.451	252.79	63.20	82.89	
HWY1	2873.72	10.254	280.24	140.12		
HWY2	2785.51	10.253	271.69	135.84		
SS1	95056.49	280.124	339.34			
SS2	15066.36	44.178	341.04			
TOTAL	123455.16	374.589				

K-Factors	UDDS1	UDDS2	UDDS3	UDDS4	HWY1	HWY2
Unweighted	0.250	0.250	0.250	0.250	0.500	0.500
Weighted	0.016	0.328	0.328	0.328	NA	NA

Results	Range (mi)	AC Wh/mi	MPGe	kWh/100mi	EPA version kWh/100mi
UDDSu	479.15	299.40			
UDDSw	486.057	295.14	114.1983	29.5144	29.51444
HWY	447.360	320.67	105.1065	32.0675	32.06747

MCT Results	whdc/mi	mi/kwhdc	mi/kwhac
UDDS	253.9932	3.9371	3.3882
HFEDS	275.9639	3.6237	3.1184

Range	0.7 Adj	Adj	MPGe	MPGe
Factor	0.7000	0.7000	0.7000	0.7000
City	340.24	340.24	79.9388	79.9388
Hwy	313.15	313.15	73.5746	73.5746
Combined	328.05	328.05	76.94	76.94

R1T Dual Standard (22in)

EPA EV Multicycle Calculator (SAE J1634 Oct 2012)

Manufacturer: RIVIAN

Carline: R1T

Model Year: 2024

Vehicle: R1S 040X 22" Standard

Test Number

Comments: ALL PURPOSE

Lab: ATDS

Test Date: 2/24/2024

As used by EPA laboratory

D.Good March 8, 2016

Cycle	Energy (Wh)	Distance (mi)	ECdc_cyc	Kuwt	Kwgt	Recharge AC WattHrs
UDDS1	2165.28	7.38	293.25	73.31	5.92	124108
UDDS2	2087.81	7.41	281.62	70.40	91.98	
UDDS3	2023.60	7.43	272.41	68.10	88.97	
UDDS4	2031.37	7.48	271.75	67.94	88.75	
HWY1	3188.30	10.25	310.96	155.48		
HWY2	3141.66	10.26	306.11	153.05		
SS1	8255.20	213.83	386.09			
SS2	10012.35	25.84	387.45			
TOTAL	107205.57	289.885				

K-Factors	UDDS1	UDDS2	UDDS3	UDDS4	HWY1	HWY2
Unweighted	0.250	0.250	0.250	0.250	0.500	0.500
Weighted	0.020	0.327	0.327	0.327	NA	NA

Results	Range (mi)	AC Wh/mi	MPGe	kWh/100mi
UDDSu	383.21	323.87		
UDDSw	388.96	319.08	105.6319	31.9080
HWY	347.47	357.18	94.3651	35.7177

EPA version
kWh/100mi
32.80141
36.00340

MCT Results	whdc/mi	mi/kwhdc	mi/kwhac
UDDS	275.6239	3.6281	3.1340
HFEDS	308.5322	3.2412	2.7997

Range	0.7 Adj	Adj	MPGe	MPGe
Factor	0.7000	0.7000	0.7000	0.7000
City	272.27	272.27	73.9423	73.9423
Hwy	243.23	243.23	66.0556	66.0556
Combined	259.20	259.20	70.17	70.17

R1T Dual Standard Plus (22in)

EPA EV Multicycle Calculator (SAE J1634 Oct 2012)

Manufacturer: RIVIAN
Carline: R1S
Model Year: 2024
Vehicle: R1S2390 22in Standard Plus
Test Number:
Comments: ALL PURPOSE
Lab: FEV
Test Date: 3/13/2024

As used by EPA laboratory

D.Good March 8, 2016

Cycle	Energy (Wh)	Distance (mi)	ECdc_cyc	Kuwt	Kwgt	Recharge AC WattHrs
UDDS1	2114.51	7.435	284.39	71.10	4.86	143603
UDDS2	2034.84	7.415	274.41	68.60	89.91	
UDDS3	1971.95	7.448	264.77	66.19	86.75	
UDDS4	1972.64	7.432	265.44	66.36	86.97	
HWY1	3112.72	10.243	303.90	151.95		
HWY2	3007.51	10.241	293.68	146.84		
SS1	96350.38	259.373	371.47			
SS2	13256.9	35.076	377.94			
TOTAL	123821.45	344.663				

K-Factors	UDDS1	UDDS2	UDDS3	UDDS4	HWY1	HWY2
Unweighted	0.250	0.250	0.250	0.250	0.500	0.500
Weighted	0.017	0.328	0.328	0.328	NA	NA

Results	Range (mi)	AC Wh/mi	MPGe	kWh/100mi
UDDSu	454.81	315.75		
UDDSw	461.191	311.37	108.2460	31.1374
HWY	414.413	346.52	97.2666	34.6522

EPA version
kWh/100mi
31.13740
34.65218

MCT Results	whdc/mi	mi/kwhdc	mi/kwhac
UDDS	268.4817	3.7246	3.2116
HFEDS	298.7878	3.3469	2.8858

Range	0.7 Adj	Adj	MPGe	MPGe
Factor	0.7000	0.7000	0.7000	0.7000
City	322.83	322.83	75.7722	75.7722
Hwy	290.09	290.09	68.0866	68.0866
Combined	308.10	308.10	72.11	72.11

R1S All-Terrain Dual Standard Plus (20in)

EPA EV Multicycle Calculator (SAE J1634 Oct 2012)

Manufacturer: RIVIAN
Carline: R1S
Model Year: 2024
Vehicle: R1S 2390 20in Standard Plus
Test Number:
Comments: ALL PURPOSE
Lab: FEV
Test Date: 3/2/2024

As used by EPA laboratory

D.Good March 8, 2016

Cycle	Energy (Wh)	Distance (mi)	ECdc_cyc	Kuwt	Kwgt	Recharge AC WattHrs
UDDS1	2368.93	7.424	319.09	79.77	6.13	142498
UDDS2	2279.93	7.421	307.23	76.81	100.44	
UDDS3	2187.65	7.434	294.28	73.57	96.21	
UDDS4	2214.17	7.456	296.96	74.24	97.09	
HWY1	3413.61	10.230	333.69	166.84		
HWY2	3313.27	10.235	323.72	161.86		
SS1	93985.26	232.430	404.36			
SS2	13570.52	33.296	407.57			
TOTAL	123333.34	315.926				

K-Factors	UDDS1	UDDS2	UDDS3	UDDS4	HWY1	HWY2
Unweighted	0.250	0.250	0.250	0.250	0.500	0.500
Weighted	0.019	0.327	0.327	0.327	NA	NA

Results	Range (mi)	AC Wh/mi	MPGe	kWh/100mi
UDDSu	405.18	351.69		
UDDSw	411.295	346.46	97.2835	34.6462
HWY	375.212	379.78	88.7488	37.9780

EPA version
kWh/100mi
34.64617
37.97798

MCT Results	whdc/mi	mi/kwhdc	mi/kwhac
UDDS	299.8658	3.3348	2.8863
HFEDS	328.7029	3.0423	2.6331

Range	0.7 Adj	Adj	MPGe	MPGe
Factor	0.7000	0.7000	0.7000	0.7000
City	287.91	287.91	68.0984	68.0984
Hwy	262.65	262.65	62.1242	62.1242
Combined	276.54	276.54	65.27	65.27

US EPA Fee Form

[Help and EPA Instructions](#)

* Required Field

General Information

Date: 09/08/2023

Process Code *

Submit New Fee Filing Form

Manufacturer Code *

RIV

Manufacturer Name *

Rivian Automotive LLC

Contact Name *

Sep Zaker

Contact Email Address *

sepzaker@rivian.com

Contact Phone *

3175152201

Calendar Year complete application submitted to EPA *

2023

PLEASE NOTE: These fees apply to complete certification applications received by EPA from January 1, 2023, through December 31, 2023. The applicable fee is determined by the calendar year in which the complete certification application is received, not the model year.

Engine Family / Evaporative Family / Test Group *

RRIVT00.0192

Certificate Request Type (Industry Sector Code)

Certificate Request Type *

- ☒ On-Highway LDV, LTD, MDVPV, HDV Chassis Cert (Federal) (A, B, D, J, T, V)
- ☐ On-Highway HDE Dyno Cert (Federal) (E, H)
- ☐ On-Highway LD ICI, MDPV ICI, HDV ICI (A, B, D, J, T, V)
- ☐ On-Highway Motorcycle (C)
- ☐ On-Highway HDV Evap (F)
- ☐ On-Highway LDV, LTD, MDVPV, HDV Chassis Cert (California-Only) (A, B, D, J, T, V)
- ☐ On-Highway HDE Dyno Cert (California-Only) (E, H)
- ☐ Nonroad CI (L)
- ☐ Nonroad SI (B, S)
- ☐ Locomotive (G, K)
- ☐ All Nonroad Recreational, excluding Marine engines (X, Y)
- ☐ All Marine (Including IMO) (M, N, W)
- ☐ Component Certification for Evaporative Emissions (P)

IMO Name (Required for dual US/IMO Marine Only)

ICI VIN Number (Required for ICIs Only)

Do you qualify for a Reduced Fee? *

No

Payment Information

Amount Owed

\$32,726.00

Payment Type *

Online ACH

Comments

EPA Form Number 3520-29

OMB Control No. 2060-0545

Approval expires 12/31/2022

The public reporting and recordkeeping burden for this collection of information is estimated to average 12 minutes per response. Send comments on the Agency's need for this information, the accuracy of the provided burden estimates, and any suggested methods for minimizing respondent burden, including through the use of automated collection techniques to the Director, Collection Strategies Division, U.S. Environmental Protection Agency (2822T), 1200 Pennsylvania Ave., NW, Washington, D.C. 20460. Include the OMB control number in any correspondence. Do not send the completed forms to this address.

The content of this document may contain Sensitive But Unclassified (SBU) data and/or Controlled Unclassified Information (CUI).

Certification Summary Information Report

Manufacturer	Rivian Automotive LLC	Manufacturer Code	RIV
Test Group	RRIVT00.0192	Evaporative/Refueling Family	--
Certificate Number	--	CARB Executive Order #	--
Certificate Issue Date	--	Certificate Revision Date	--
Certificate Effective Date	--	Conditional Certificate	--
CSI Revision #	--	CSI Submission/Revision Date	04/03/2024 03:44:54 PM
Model Year	2024		

Test Group Information

CSI Type	Running Change	Running Change Reference Number	3
GHG Exempt Status	Not Exempt		

Drive Sources and Fuel(s)

Drive Source #1: Electric Motor

Fuel	Basic Fuel Metering System	Lean Burn Strategy Indicator
Electricity	--	--

Hybrid Indicator	No		
Multiple Fuel Storage	--	Rechargeable Energy Storage System Indicator	Yes
Multiple Fuel Combustion	--	Off-board Charge Capable Indicator	Yes
Fuel Cell Indicator	No	EPA Vehicle Class	MDPV
Federal Clean Fuel Vehicle	Yes	Federal Clean Fuel Vehicle Standard	ZEV
Federal Clean Fuel Vehicle ILEV	No	California Partial Zero Emissions Vehicle Indicator	--
Durability Group Name	RRIVR00000192	Durability Group Equivalency Factor	1
Reduced Fee Test Group	No	Certification Region Code(s)	FA, CA
Complies with HD GHG 2b/3 regulations?	No		
Introduction into Commerce Date	02/14/2024	CAP2000 Conditional Certificate?	N/A
Independent Commercial Importer?	--	Alternative Fuel Converter Certificate?	--
SFTP Federal Composite Compliance Identifier	Not Applicable	SFTP Tier 2 Composite CO Option	No
SFTP LEV-III Composite Compliance Indicator	No		
OBD Compliance Type	CARB	OBD Demonstration Vehicle Test Group	RRIVT00.0192
Test Group OBD Compliance Level	Full - no deficiencies	Number of Test Group OBD Deficiencies	0
OBD Deficiencies Comments	OBD COMPLIANCE IS NOT APPLICABLE TO ZEV. PARAMETERS ARE PLACEHOLDERS TO ALLOW DATASET SUBMISSION.		
Mfr Test Group Comments	DURABILITY IS NOT APPLICABLE TO ZEV. PARAMETERS ARE PLACEHOLDERS TO ALLOW DATASET SUBMISSION.		
Mfr Exhaust / Evap Standards Comments	--		

Certification Summary Information Report

Test Group		RRIVT00.0192		Evaporative/Refueling Family		--	
Models Covered by this Certificate							
Carline Manufacturer	Division	Carline	Certification Region Code(s)	Drive System	Trans - Type	- # of Gears	Trans - Lockup
Rivian Automotive LLC	1 - Rivian	731 - R1T Dual Large (21in)	California + CAA Section 177 states	Part-time 4-Wheel Drive	Automatic	1	No
Rivian Automotive LLC	1 - Rivian	541 - R1S Performance Dual Large (21in)	Federal	Part-time 4-Wheel Drive	Automatic	1	No
Rivian Automotive LLC	1 - Rivian	531 - R1S Dual Large (21in)	Federal	Part-time 4-Wheel Drive	Automatic	1	No
Rivian Automotive LLC	1 - Rivian	772 - R1T Dual Standard (22in)	California + CAA Section 177 states	Part-time 4-Wheel Drive	Automatic	1	No
Rivian Automotive LLC	1 - Rivian	730 - R1T All-Terrain Dual Large (20in)	Federal	Part-time 4-Wheel Drive	Automatic	1	No
Rivian Automotive LLC	1 - Rivian	541 - R1S Performance Dual Large (21in)	California + CAA Section 177 states	Part-time 4-Wheel Drive	Automatic	1	No
Rivian Automotive LLC	1 - Rivian	531 - R1S Dual Large (21in)	California + CAA Section 177 states	Part-time 4-Wheel Drive	Automatic	1	No
Rivian Automotive LLC	1 - Rivian	771 - R1T Dual Standard (21in)	Federal	Part-time 4-Wheel Drive	Automatic	1	No
Rivian Automotive LLC	1 - Rivian	742 - R1T Performance Dual Large (22in)	Federal	Part-time 4-Wheel Drive	Automatic	1	No
Rivian Automotive LLC	1 - Rivian	792 - R1T Performance Dual Standard Plus (22in)	Federal	Part-time 4-Wheel Drive	Automatic	1	No
Rivian Automotive LLC	1 - Rivian	791 - R1T Performance Dual Standard Plus (21in)	Federal	Part-time 4-Wheel Drive	Automatic	1	No
Rivian Automotive LLC	1 - Rivian	772 - R1T Dual Standard (22in)	Federal	Part-time 4-Wheel Drive	Automatic	1	No
Rivian Automotive LLC	1 - Rivian	591 - R1S Performance Dual Standard Plus (21in)	California + CAA Section 177 states	Part-time 4-Wheel Drive	Automatic	1	No
Rivian Automotive LLC	1 - Rivian	592 - R1S Performance Dual Standard (22in)	California + CAA Section 177 states	Part-time 4-Wheel Drive	Automatic	1	No
Rivian Automotive LLC	1 - Rivian	732 - R1T Dual Large (22in)	California + CAA Section 177 states	Part-time 4-Wheel Drive	Automatic	1	No
Rivian Automotive LLC	1 - Rivian	742 - R1T Performance Dual Large (22in)	California + CAA Section 177 states	Part-time 4-Wheel Drive	Automatic	1	No
Rivian Automotive LLC	1 - Rivian	782 - R1T Dual Standard Plus (22in)	California + CAA Section 177 states	Part-time 4-Wheel Drive	Automatic	1	No
Rivian Automotive LLC	1 - Rivian	542 - R1S Performance Dual Large (22in)	California + CAA Section 177 states	Part-time 4-Wheel Drive	Automatic	1	No
Rivian Automotive LLC	1 - Rivian	790 - R1T AT Performance Dual Standard Plus (20in)	Federal	Part-time 4-Wheel Drive	Automatic	1	No
Rivian Automotive LLC	1 - Rivian	771 - R1T Dual Standard (21in)	California + CAA Section 177 states	Part-time 4-Wheel Drive	Automatic	1	No

Certification Summary Information Report

Test Group		RRIVT00.0192	Evaporative/Refueling Family		--		
Rivian Automotive LLC	1 - Rivian	582 - R1S Dual Standard Plus (22in)	California + CAA Section 177 states	Part-time 4-Wheel Drive	Automatic	1	No
Rivian Automotive LLC	1 - Rivian	781 - R1T Dual Standard Plus (21in)	Federal	Part-time 4-Wheel Drive	Automatic	1	No
Rivian Automotive LLC	1 - Rivian	580 - R1S All-Terrain Dual Standard Plus (20in)	California + CAA Section 177 states	Part-time 4-Wheel Drive	Automatic	1	No
Rivian Automotive LLC	1 - Rivian	741 - R1T Performance Dual Large (21in)	California + CAA Section 177 states	Part-time 4-Wheel Drive	Automatic	1	No
Rivian Automotive LLC	1 - Rivian	590 - R1S AT Performance Dual Standard Plus (20in)	Federal	Part-time 4-Wheel Drive	Automatic	1	No
Rivian Automotive LLC	1 - Rivian	530 - R1S All-Terrain Dual Large (20in)	Federal	Part-time 4-Wheel Drive	Automatic	1	No
Rivian Automotive LLC	1 - Rivian	572 - R1S Dual Standard (22in)	California + CAA Section 177 states	Part-time 4-Wheel Drive	Automatic	1	No
Rivian Automotive LLC	1 - Rivian	732 - R1T Dual Large (22in)	Federal	Part-time 4-Wheel Drive	Automatic	1	No
Rivian Automotive LLC	1 - Rivian	781 - R1T Dual Standard Plus (21in)	California + CAA Section 177 states	Part-time 4-Wheel Drive	Automatic	1	No
Rivian Automotive LLC	1 - Rivian	532 - R1S Dual Large (22in)	Federal	Part-time 4-Wheel Drive	Automatic	1	No
Rivian Automotive LLC	1 - Rivian	780 - R1T All-Terrain Dual Standard Plus (20in)	California + CAA Section 177 states	Part-time 4-Wheel Drive	Automatic	1	No
Rivian Automotive LLC	1 - Rivian	731 - R1T Dual Large (21in)	Federal	Part-time 4-Wheel Drive	Automatic	1	No
Rivian Automotive LLC	1 - Rivian	592 - R1S Performance Dual Standard (22in)	Federal	Part-time 4-Wheel Drive	Automatic	1	No
Rivian Automotive LLC	1 - Rivian	581 - R1S Dual Standard Plus (21in)	California + CAA Section 177 states	Part-time 4-Wheel Drive	Automatic	1	No
Rivian Automotive LLC	1 - Rivian	780 - R1T All-Terrain Dual Standard Plus (20in)	Federal	Part-time 4-Wheel Drive	Automatic	1	No
Rivian Automotive LLC	1 - Rivian	571 - R1S Dual Standard (21in)	Federal	Part-time 4-Wheel Drive	Automatic	1	No
Rivian Automotive LLC	1 - Rivian	581 - R1S Dual Standard Plus (21in)	Federal	Part-time 4-Wheel Drive	Automatic	1	No
Rivian Automotive LLC	1 - Rivian	540 - R1S All-Terrain Performance Dual Large (20in)	Federal	Part-time 4-Wheel Drive	Automatic	1	No
Rivian Automotive LLC	1 - Rivian	741 - R1T Performance Dual Large (21in)	Federal	Part-time 4-Wheel Drive	Automatic	1	No
Rivian Automotive LLC	1 - Rivian	791 - R1T Performance Dual Standard Plus (21in)	California + CAA Section 177 states	Part-time 4-Wheel Drive	Automatic	1	No
Rivian Automotive LLC	1 - Rivian	572 - R1S Dual Standard (22in)	Federal	Part-time 4-Wheel Drive	Automatic	1	No

Certification Summary Information Report

Test Group		RRIVT00.0192		Evaporative/Refueling Family		--	
Rivian Automotive LLC	1 - Rivian	532 - R1S Dual Large (22in)	California + CAA Section 177 states	Part-time 4-Wheel Drive	Automatic	1	No
Rivian Automotive LLC	1 - Rivian	740 - R1T All-Terrain Performance Dual Large (20in)	California + CAA Section 177 states	Part-time 4-Wheel Drive	Automatic	1	No
Rivian Automotive LLC	1 - Rivian	540 - R1S All-Terrain Performance Dual Large (20in)	California + CAA Section 177 states	Part-time 4-Wheel Drive	Automatic	1	No
Rivian Automotive LLC	1 - Rivian	571 - R1S Dual Standard (21in)	California + CAA Section 177 states	Part-time 4-Wheel Drive	Automatic	1	No
Rivian Automotive LLC	1 - Rivian	730 - R1T All-Terrain Dual Large (20in)	California + CAA Section 177 states	Part-time 4-Wheel Drive	Automatic	1	No
Rivian Automotive LLC	1 - Rivian	740 - R1T All-Terrain Performance Dual Large (20in)	Federal	Part-time 4-Wheel Drive	Automatic	1	No
Rivian Automotive LLC	1 - Rivian	580 - R1S All-Terrain Dual Standard Plus (20in)	Federal	Part-time 4-Wheel Drive	Automatic	1	No
Rivian Automotive LLC	1 - Rivian	582 - R1S Dual Standard Plus (22in)	Federal	Part-time 4-Wheel Drive	Automatic	1	No
Rivian Automotive LLC	1 - Rivian	530 - R1S All-Terrain Dual Large (20in)	California + CAA Section 177 states	Part-time 4-Wheel Drive	Automatic	1	No
Rivian Automotive LLC	1 - Rivian	591 - R1S Performance Dual Standard Plus (21in)	Federal	Part-time 4-Wheel Drive	Automatic	1	No
Rivian Automotive LLC	1 - Rivian	792 - R1T Performance Dual Standard Plus (22in)	California + CAA Section 177 states	Part-time 4-Wheel Drive	Automatic	1	No
Rivian Automotive LLC	1 - Rivian	790 - R1T AT Performance Dual Standard Plus (20in)	California + CAA Section 177 states	Part-time 4-Wheel Drive	Automatic	1	No
Rivian Automotive LLC	1 - Rivian	590 - R1S AT Performance Dual Standard Plus (20in)	California + CAA Section 177 states	Part-time 4-Wheel Drive	Automatic	1	No
Rivian Automotive LLC	1 - Rivian	542 - R1S Performance Dual Large (22in)	Federal	Part-time 4-Wheel Drive	Automatic	1	No
Rivian Automotive LLC	1 - Rivian	782 - R1T Dual Standard Plus (22in)	Federal	Part-time 4-Wheel Drive	Automatic	1	No

Engine Description

Hybrid Type

--

Engine Type

--

Engine Block Arrangement

--

Camless Valvetrain Indicator

--

Number of Cylinders/Rotors

--

Hybrid Description

--

Mfr Engine Description

--

Mfr Engine Block Arrangement Description

--

Oil Viscosity/Classification

Mechanically Variable Compression Ratio Indicator

--

Certification Summary Information Report

Test Group	RRIVT00.0192	Evaporative/Refueling Family	--
-------------------	--------------	-------------------------------------	----

After Treatment Device(s) (ATD)
Mfr After Treatment Device (ATD) Comments --
Direct Ozone Reduction (DOR) Device --
Mfr Emission Control Device Comments --

Official Test Numbers

Test Group Fuel	FTP	US06	SC03	Cold CO	Highway	EPA City Litmus Value	EPA City Litmus Threshold	EPA Highway Litmus Value	EPA Highway Litmus Threshold	CREE Weighting Factor
Electricity	--	--	--	--	--	--	--	--	--	--

SFTP LEV-III Official Test Numbers

Test Group Fuel	FTP	US06	SC03
Electricity	--	--	--

Official Charge Depleting Test Numbers

Test Group Fuel	UDDS	Highway
Electricity	PRIV10080257	PRIV10080258
Electricity	PRIV10080841	PRIV10080842
Electricity	PRIV10079232	PRIV10079233
Electricity	PRIV10079973	PRIV10079974

Certification Summary Information Report

Test Group	RRIVT00.0192	Evaporative/Refueling Family	--
Hybrid Electric Vehicle And Fuel Cell Information			
Rechargeable Energy Storage System	Battery(s)	Rechargeable Energy Storage System, if Other	--
Battery Type	Lithium Ion	Number of Battery Packs	1
Total Voltage of Battery Packs	400	Battery Energy Capacity	360
Battery Specific Energy	169	Battery Charger Type	Both
Number of Capacitors	--	Capacitor Rating (In Farads)	--
Mfr Capacitor Comments	--		
Hydraulic System Description	--		
Regenerative Braking Type	Electrical Regen Brake		
Regenerative Braking Source	Both	Driver Controlled Regenerative Braking	Yes
Mfr Regenerative Braking Description	--		
Drive Motor(s)/Generator(s)	2		
Motor/Generator Type 1	AC Permanent Magnet	Rated Motor/Generator Power	208
Motor/Generator Type 2	AC Permanent Magnet	Rated Motor/Generator Power	208
Mfr Fuel Cell Description	--		
Fuel Cell On-Board H2 Storage Capacity (kg)	--	Usable H2 Fill Capacity (kg)	--
Mfr Hybrid Electric/ Electric Vehicle Comments	All-Purpose (Default) Drive Mode Rated Motor/Generator Power (kWatt) 248 and 248 is for Performance Dual Large. Rated Motor/Generator Power (kWatt) 208 and 208 is for Dual Large.		

Certification Summary Information Report

Test Group	RRIVT00.0192	Evaporative/Refueling Family	--					
Emission Data Vehicle Information								
Vehicle ID / Configuration	R1S040XR20 / 0	Manufacturer Vehicle Configuration Number	0					
Original Test Group Name	PRIVT00.0192	Original Evaporative/Refueling Family	--					
Original Test Vehicle Model Year	2023							
Vehicle Model								
Represented Test Vehicle Make	Rivian	Represented Test Vehicle Model	R1S 20in All-Terrain Performance Dual Large					
Leak Family Details								
Leak Family Identifier	--	Leak Family Name	--					
Drive Sources and Fuel System Details								
	<table border="1"> <thead> <tr> <th>Drive Source and Fuel#</th><th>Drive Source</th><th>Fuel</th></tr> </thead> <tbody> <tr> <td>1</td><td>Electric Motor</td><td>Electricity</td></tr> </tbody> </table>	Drive Source and Fuel#	Drive Source	Fuel	1	Electric Motor	Electricity	
Drive Source and Fuel#	Drive Source	Fuel						
1	Electric Motor	Electricity						
Hybrid Indicator	No							
Multiple Fuel Storage	--	Multiple Fuel Combustion	--					
Fuel Cell Indicator	No	Rechargeable Energy Storage System Indicator	Yes					
Rechargeable Energy Storage System	Battery(s)	Rechargeable Energy Storage System, if 'Other'	--					
Off-board charge Capable Indicator	Yes							
Odometer Correction -- Initial	1	Odometer Correction Factor	1					
Odometer Correction Sign	+ = System Miles is equal to (Test odometer reading * Correction factor) + Initial system miles							
Odometer Correction Units	Miles							
Engine Code	264X2RW	Rated Horsepower	665					
Displacement (liters)	99.999							
Air Aspiration Method	Naturally Aspirated	Air Aspiration Method, if 'Other'	Electric					
Number of Air Aspiration Devices	--	Air Aspiration Device Configuration	--					
Charge Air Cooler Type	--	Drive Mode While Testing	Part-time 4-Wheel Drive					
Shift Indicator Light Usage	Not equipped	Aged Emission Components	4,000 (mi)					
Curb Weight (lbs)	6951	Equivalent Test Weight (pounds)	7500					
GVWR (lbs)	--	N/V Ratio	999					
Axle Ratio	9.99							
Transmission Type	Automatic	# of Transmission Gears	1					
Transmission Lockup	No	Creep Gear	No					

Certification Summary Information Report

Test Group		RRIVT00.0192			Evaporative/Refueling Family		--	
Dynamometer Coefficients:								
Target Coefficients				Set Coefficients			EPA Calculated Total Road Load Horse Power for City/Highway/Evap Coefficients	
Coefficient Category	A (lbf)	B (lbf/mph)	C (lbf/mph**2)	A (lbf)	B (lbf/mph)	C (lbf/mph**2)		
City/Highway/Evap	60.02	0.3434	0.02458	1.1	-0.058	0.0267	18.5	
Cold CO	66.02	0.3777	0.02704	-9.84	-0.234	0.02946	N/A	
US06	60.02	0.3434	0.02458	1.1	-0.058	0.0267	N/A	
Emission Control Device Comments		Battery Electric Vehicle						
Manufacturer Test Vehicle Comments		FDU Axle Ratio: 11.0:1 RDU Axle Ratio: 13.7:1 FDU N/V: 135.0 RDU N/V: 108.4						

Certification Summary Information Report

Test Group	RRIVT00.0192	Evaporative/Refueling Family	--																		
Test #	PRIV10080257	Test Procedure	81 - Charge Depleting UDDS																		
Exhaust Test # for this Evap Test	--	Test Fuel Type	62 - Electricity																		
Test Date	04/11/2023	Fuel	Electricity																		
Fuel Batch ID	--	Fuel Calibration Number	--																		
Vehicle Class	MDPV (Federal Tier 2, GVWR 8501-10000)	DF Type	EPA Assigned																		
Verify Test Lab ID	FEV Michigan																				
E10 Evaporative Test Measurement Method	--																				
Test Start Odometer Reading	4903	Odometer Units	M																		
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--																		
State of Charge Delta	Yes																				
Drive Cycle Speed Tolerance Criteria	Used Part 86 (+/- 2 mph, +/- 1 sec)	Road Speed Fan Usage	Yes																		
PHEV/EV Charge Depleting Test Information																					
Recharge Event Voltage	240	Recharge Event Energy (kiloWatt-hours)	150.83																		
Charge Depleting Range (Calculated miles)	458.79	Charge Depleting Range (Actual miles)	458.79																		
Charge Depleting Range Highway (Calculated miles)	--	Derived 5-Cycle Coefficient Model Year	--																		
All Electric Range Unadjusted (miles)	--	Equivalent All Electric Range (miles)	458.79																		
Number of Charge Depleting Bags/Phases Conducted	4	Transition Bag/Phase Number	--																		
Charge Depleting Bag/Phase																					
<table border="1"> <thead> <tr> <th>Charge Depleting Bag/Phase #</th> <th>Test Result/Emission Name</th> <th>Unrounded Test Result</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Carbon-Related Exhaust Emissions</td> <td>0</td> </tr> <tr> <td>2</td> <td>Drive Trace Absolute Speed Change Rating</td> <td>0.2</td> </tr> <tr> <td>3</td> <td>Drive Trace Energy Economy Rating</td> <td>0.11</td> </tr> <tr> <td>4</td> <td>Drive Trace Inertia Work Ratio Rating</td> <td>0.46</td> </tr> <tr> <td>5</td> <td>Manufacturer Fuel Economy</td> <td>29.36</td> </tr> </tbody> </table>				Charge Depleting Bag/Phase #	Test Result/Emission Name	Unrounded Test Result	1	Carbon-Related Exhaust Emissions	0	2	Drive Trace Absolute Speed Change Rating	0.2	3	Drive Trace Energy Economy Rating	0.11	4	Drive Trace Inertia Work Ratio Rating	0.46	5	Manufacturer Fuel Economy	29.36
Charge Depleting Bag/Phase #	Test Result/Emission Name	Unrounded Test Result																			
1	Carbon-Related Exhaust Emissions	0																			
2	Drive Trace Absolute Speed Change Rating	0.2																			
3	Drive Trace Energy Economy Rating	0.11																			
4	Drive Trace Inertia Work Ratio Rating	0.46																			
5	Manufacturer Fuel Economy	29.36																			
Charge Depleting Bag/Phase																					
<table border="1"> <thead> <tr> <th>Charge Depleting Bag/Phase #</th> <th>Test Result/Emission Name</th> <th>Unrounded Test Result</th> </tr> </thead> <tbody> <tr> <td>6</td> <td>Carbon-Related Exhaust Emissions</td> <td>0</td> </tr> <tr> <td>7</td> <td>Drive Trace Absolute Speed Change Rating</td> <td>1</td> </tr> <tr> <td>8</td> <td>Drive Trace Energy Economy Rating</td> <td>0.55</td> </tr> <tr> <td>9</td> <td>Drive Trace Inertia Work Ratio Rating</td> <td>1.45</td> </tr> <tr> <td>10</td> <td>Manufacturer Fuel Economy</td> <td>30.32</td> </tr> </tbody> </table>				Charge Depleting Bag/Phase #	Test Result/Emission Name	Unrounded Test Result	6	Carbon-Related Exhaust Emissions	0	7	Drive Trace Absolute Speed Change Rating	1	8	Drive Trace Energy Economy Rating	0.55	9	Drive Trace Inertia Work Ratio Rating	1.45	10	Manufacturer Fuel Economy	30.32
Charge Depleting Bag/Phase #	Test Result/Emission Name	Unrounded Test Result																			
6	Carbon-Related Exhaust Emissions	0																			
7	Drive Trace Absolute Speed Change Rating	1																			
8	Drive Trace Energy Economy Rating	0.55																			
9	Drive Trace Inertia Work Ratio Rating	1.45																			
10	Manufacturer Fuel Economy	30.32																			
Charge Depleting Bag/Phase																					

Certification Summary Information Report

Test Group	RRIVT00.0192	Evaporative/Refueling Family	--																		
<table><tr><th>Charge Depleting Bag/Phase #</th><th>Test Result/Emission Name</th><th>Unrounded Test Result</th></tr><tr><td>11</td><td>Carbon-Related Exhaust Emissions</td><td>0</td></tr><tr><td>12</td><td>Drive Trace Absolute Speed Change Rating</td><td>-0.19</td></tr><tr><td>13</td><td>Drive Trace Energy Economy Rating</td><td>-0.45</td></tr><tr><td>14</td><td>Drive Trace Inertia Work Ratio Rating</td><td>-0.34</td></tr><tr><td>15</td><td>Manufacturer Fuel Economy</td><td>28.02</td></tr></table>				Charge Depleting Bag/Phase #	Test Result/Emission Name	Unrounded Test Result	11	Carbon-Related Exhaust Emissions	0	12	Drive Trace Absolute Speed Change Rating	-0.19	13	Drive Trace Energy Economy Rating	-0.45	14	Drive Trace Inertia Work Ratio Rating	-0.34	15	Manufacturer Fuel Economy	28.02
Charge Depleting Bag/Phase #	Test Result/Emission Name	Unrounded Test Result																			
11	Carbon-Related Exhaust Emissions	0																			
12	Drive Trace Absolute Speed Change Rating	-0.19																			
13	Drive Trace Energy Economy Rating	-0.45																			
14	Drive Trace Inertia Work Ratio Rating	-0.34																			
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Charge Depleting Bag/Phase #	Test Result/Emission Name	Unrounded Test Result																			
16	Carbon-Related Exhaust Emissions	0																			
17	Drive Trace Absolute Speed Change Rating	-0.56																			
18	Drive Trace Energy Economy Rating	-0.46																			
19	Drive Trace Inertia Work Ratio Rating	-0.69																			
20	Manufacturer Fuel Economy	27.96																			
Manufacturer Test Comments																					
R1S - Drive Mode: All-Purpose (Default Mode) Dual Motor, Large Battery Pack, and 20" Tires. Cycle 1: 303.16 Wh/mi, Cycle 2: 293.63 Wh/mi, Cycle 3: 279.65 Wh/mi, Cycle 4: 280.21 Wh/mi. Cycle 1: 2257.63 Wh MCT DC Energy: 130672.25 Wh																					
Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	RAF	NMOG/NM HC Ratio	Diesel Adjustment Factor	Add DF	Mult DF	Certification Level	Standard	Pass/Fail									
Fed	150,000 miles	Federal Tier 3 Bin 0	CREE	0	--	--	--	0	--	0	--	--									
Fed	150,000 miles	Federal Tier 3 Bin 0	CREE	0	--	--	--	0	--	0	--	--									
Fed	150,000 miles	Federal Tier 3 Bin 0	CREE	0	--	--	--	0	--	0	--	--									
Fed	150,000 miles	Federal Tier 3 Bin 0	CREE	0	--	--	--	0	--	0	--	--									
CA	150,000 miles	California ZEV	CREE	0	--	--	--	0	--	0	--	--									
CA	150,000 miles	California ZEV	CREE	0	--	--	--	0	--	0	--	--									
CA	150,000 miles	California ZEV	CREE	0	--	--	--	0	--	0	--	--									
CA	150,000 miles	California ZEV	CREE	0	--	--	--	0	--	0	--	--									

Certification Summary Information Report

Test Group	RRIVT00.0192	Evaporative/Refueling Family	--																		
Test #	PRIV10080258	Test Procedure	84 - Charge Depleting Highway																		
Exhaust Test # for this Evap Test	--	Test Fuel Type	62 - Electricity																		
Test Date	04/11/2023	Fuel	Electricity																		
Fuel Batch ID	--	Fuel Calibration Number	--																		
Vehicle Class	MDPV (Federal Tier 2, GVWR 8501-10000)	DF Type	EPA Assigned																		
Verify Test Lab ID	FEV Michigan																				
E10 Evaporative Test Measurement Method	--																				
Test Start Odometer Reading	4903	Odometer Units	M																		
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--																		
State of Charge Delta	Yes																				
Drive Cycle Speed Tolerance Criteria	Used Part 86 (+/- 2 mph, +/- 1 sec)	Road Speed Fan Usage	Yes																		
PHEV/EV Charge Depleting Test Information																					
Recharge Event Voltage	240	Recharge Event Energy (kiloWatt-hours)	150.83																		
Charge Depleting Range (Calculated miles)	410.01	Charge Depleting Range (Actual miles)	410.01																		
Charge Depleting Range Highway (Calculated miles)	--	Derived 5-Cycle Coefficient Model Year	--																		
All Electric Range Unadjusted (miles)	--	Equivalent All Electric Range (miles)	410.01																		
Number of Charge Depleting Bags/Phases Conducted	2	Transition Bag/Phase Number	--																		
Charge Depleting Bag/Phase																					
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Charge Depleting Bag/Phase #	Test Result/Emission Name	Unrounded Test Result																			
1	Carbon-Related Exhaust Emissions	0																			
2	Drive Trace Absolute Speed Change Rating	-1.15																			
3	Drive Trace Energy Economy Rating	0.02																			
4	Drive Trace Inertia Work Ratio Rating	-1.31																			
5	Manufacturer Fuel Economy	31.36																			
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Charge Depleting Bag/Phase #	Test Result/Emission Name	Unrounded Test Result																			
6	Carbon-Related Exhaust Emissions	0																			
7	Drive Trace Absolute Speed Change Rating	1																			
8	Drive Trace Energy Economy Rating	0.57																			
9	Drive Trace Inertia Work Ratio Rating	0.91																			
10	Manufacturer Fuel Economy	32.38																			
Manufacturer Test Comments	R1S - Drive Mode: All-Purpose (Default Mode) Dual Motor, Large Battery Pack, and 20" Tires. Cycle 1: 323.84 Wh/mi, Cycle 2: 313.58 Wh/mi MCT DC Energy: 130672.25 Wh																				

Certification Summary Information Report

Test Group		RRIVT00.0192				Evaporative/Refueling Family				--		
Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	RAF	NMOG/NM HC Ratio	Diesel Adjustment Factor	Add DF	Mult DF	Certification Level	Standard	Pass/Fail
Fed	150,000 miles	Federal Tier 3 Bin 0	CREE	0	--	--	--	0	--	0	--	--
Fed	150,000 miles	Federal Tier 3 Bin 0	CREE	0	--	--	--	0	--	0	--	--
CA	150,000 miles	California ZEV	CREE	0	--	--	--	0	--	0	--	--
CA	150,000 miles	California ZEV	CREE	0	--	--	--	0	--	0	--	--

Certification Summary Information Report

Test Group	RRIVT00.0192	Evaporative/Refueling Family	--					
Emission Data Vehicle Information								
Vehicle ID / Configuration	R1S040XR21 / 0	Manufacturer Vehicle Configuration Number	0					
Original Test Group Name	PRIVT00.0192	Original Evaporative/Refueling Family	--					
Original Test Vehicle Model Year	2023							
Vehicle Model								
Represented Test Vehicle Make	Rivian	Represented Test Vehicle Model	R1S 21in Performance Dual Large					
Leak Family Details								
Leak Family Identifier	--	Leak Family Name	--					
Drive Sources and Fuel System Details								
	<table border="1"> <thead> <tr> <th>Drive Source and Fuel#</th> <th>Drive Source</th> <th>Fuel</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Electric Motor</td> <td>Electricity</td> </tr> </tbody> </table>	Drive Source and Fuel#	Drive Source	Fuel	1	Electric Motor	Electricity	
Drive Source and Fuel#	Drive Source	Fuel						
1	Electric Motor	Electricity						
Hybrid Indicator	No	Multiple Fuel Combustion	--					
Multiple Fuel Storage	--	Rechargeable Energy Storage System Indicator	Yes					
Fuel Cell Indicator	No	Rechargeable Energy Storage System, if 'Other'	--					
Rechargeable Energy Storage System	Battery(s)							
Off-board charge Capable Indicator	Yes	Odometer Correction Factor	1					
Odometer Correction -- Initial	1							
Odometer Correction Sign	+ = System Miles is equal to (Test odometer reading * Correction factor) + Initial system miles							
Odometer Correction Units	Miles							
Engine Code	264X2RW	Rated Horsepower	665					
Displacement (liters)	99.999	Air Aspiration Method, if 'Other'	Electric					
Air Aspiration Method	Naturally Aspirated	Air Aspiration Device Configuration	--					
Number of Air Aspiration Devices	--	Drive Mode While Testing	Part-time 4-Wheel Drive					
Charge Air Cooler Type	--	Aged Emission Components	4,000 (mi)					
Shift Indicator Light Usage	Not equipped	Equivalent Test Weight (pounds)	7000					
Curb Weight (lbs)	6722	N/V Ratio	999					
GVWR (lbs)	--							
Axle Ratio	9.99	# of Transmission Gears	1					
Transmission Type	Automatic	Creep Gear	No					
Transmission Lockup	No							

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Certification Summary Information Report

Test Group	RRIVT00.0192	Evaporative/Refueling Family	--
Test #	PRIV10079554	Test Procedure	2 - CVS 75 and later (w/o can. load)
Exhaust Test # for this Evap Test	--	Test Fuel Type	62 - Electricity
Test Date	03/15/2023	Fuel	Electricity
Fuel Batch ID	--	Fuel Calibration Number	--
Vehicle Class	MDPV (Federal Tier 2, GVWR 8501-10000)	DF Type	EPA Assigned
Verify Test Lab ID	FEV Michigan		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4207	Odometer Units	M
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--
State of Charge Delta	Yes		
Drive Cycle Speed Tolerance Criteria	Used Part 86 (+/- 2 mph, +/- 1 sec)	Road Speed Fan Usage	Yes

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (kilowatt-hour per 100 miles)
METHANE (CH4 - Methane)	0	--
CO (Carbon Monoxide)	0	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-0.15	--
DT-EER (Drive Trace Energy Economy Rating)	-0.32	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-0.21	--
MFR FE (Manufacturer Fuel Economy)	25.95	129.8651252
NOX (Nitrogen Oxide)	0	--
N2O (Nitrous Oxide)	0	--
HC-NM (Non-methane Hydrocarbon)	0	--
NMOG (Non-methane organic gases)	0	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	0	0
Optional Carbon-Related Exhaust Emissions	0	0

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	0	--

Manufacturer Test Comments

R1S - Drive Mode: All-Purpose (Default Mode) Dual Motor, Large Battery Pack, and 21" Tires. Cycle 1: 283.16 Wh/mi, Cycle 2: 241.93 Wh/mi, Cycle 3: 276.15 Wh/mi, Cycle 4: 239.50 Wh/mi.

Certification Summary Information Report

Test Group		RRIVT00.0192				Evaporative/Refueling Family				--		
Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	RAF	NMOG/NM HC Ratio	Diesel Adjustment Factor	Add DF	Mult DF	Certification Level	Standard	Pass/Fail
Fed	150,000 miles	Federal Tier 3 Bin 0	CO	0.0	--	--	--	0	--	0	0	Pass
CA	150,000 miles	California ZEV	CO	0.0	--	--	--	0	--	0	0	Pass

Certification Summary Information Report

Test Group	RRIVT00.0192	Evaporative/Refueling Family	--
Test #	PRIV10079555	Test Procedure	3 - HWFE
Exhaust Test # for this Evap Test	--	Test Fuel Type	62 - Electricity
Test Date	03/15/2023	Fuel	N/A
Fuel Batch ID	--	Fuel Calibration Number	--
Vehicle Class	N/A	DF Type	EPA Assigned
Verify Test Lab ID	FEV Michigan		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4207	Odometer Units	M
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--
State of Charge Delta	Yes		
Drive Cycle Speed Tolerance Criteria	Used Part 86 (+/- 2 mph, +/- 1 sec)	Road Speed Fan Usage	Yes
Test Results			
Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (kilowatt-hour per 100 miles)	
METHANE (CH4 - Methane)	0	--	
CO (Carbon Monoxide)	0	--	
DT-ASCR (Drive Trace Absolute Speed Change Rating)	0.57	--	
DT-EER (Drive Trace Energy Economy Rating)	-0.3	--	
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	0.5	--	
MFR FE (Manufacturer Fuel Economy)	28.01	120.3141735	
NOX (Nitrogen Oxide)	0	--	
N2O (Nitrous Oxide)	0	--	
HC-NM (Non-methane Hydrocarbon)	0	--	
NMOG (Non-methane organic gases)	0	--	
Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE	
Carbon-Related Exhaust Emissions	0	0	
Optional Carbon-Related Exhaust Emissions	0	0	
Test Result Name	Unrounded Test Result	Verify Calculated CO2	
Carbon dioxide	0	--	
Manufacturer Test Comments	R1S - Drive Mode: All-Purpose (Default Mode) Dual Motor, Large Battery Pack, and 21" Tires. Cycle 1: 280.08 Wh/mi		

Certification Summary Information Report

Test Group	RRIVT00.0192	Evaporative/Refueling Family	--
Test #	PRIV10079556	Test Procedure	90 - US06
Exhaust Test # for this Evap Test	--	Test Fuel Type	62 - Electricity
Test Date	03/16/2023	Fuel	N/A
Fuel Batch ID	--	Fuel Calibration Number	--
Vehicle Class	N/A	DF Type	EPA Assigned
Verify Test Lab ID	FEV Michigan		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4239	Odometer Units	M
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--
State of Charge Delta	Yes		
Drive Cycle Speed Tolerance Criteria	Used Part 86 (+/- 2 mph, +/- 1 sec)	Road Speed Fan Usage	Yes

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (kilowatt-hour per 100 miles)
METHANE (CH4 - Methane)	0	--
CO (Carbon Monoxide)	0	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	1.66	--
DT-EER (Drive Trace Energy Economy Rating)	0.66	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	2.69	--
MFR FE (Manufacturer Fuel Economy)	36.5	92.3287671
NOX (Nitrogen Oxide)	0	--
N2O (Nitrous Oxide)	0	--
HC-NM (Non-methane Hydrocarbon)	0	--
NMOG (Non-methane organic gases)	0	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	0	--
Optional Carbon-Related Exhaust Emissions	0	--

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	0	--

Manufacturer Test Comments

R1S - Drive Mode: All-Purpose (Default Mode) Dual Motor, Large Battery Pack, and 21" Tires. Cycle 1 (City1): 350.52 Wh/mi, Cycle 2 (HWY): 361.07 Wh/mi, Cycle 3 (City2): 452.60 Wh/mi

Certification Summary Information Report

Test Group	RRIVT00.0192	Evaporative/Refueling Family	--
Test #	PRIV10079557	Test Procedure	95 - SC03
Exhaust Test # for this Evap Test	--	Test Fuel Type	62 - Electricity
Test Date	03/16/2023	Fuel	N/A
Fuel Batch ID	--	Fuel Calibration Number	--
Vehicle Class	N/A	DF Type	EPA Assigned
Verify Test Lab ID	FEV Michigan		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4232	Odometer Units	M
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--
State of Charge Delta	Yes		
Drive Cycle Speed Tolerance Criteria	Used Part 86 (+/- 2 mph, +/- 1 sec)	Road Speed Fan Usage	Yes

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (kilowatt-hour per 100 miles)
METHANE (CH4 - Methane)	0	--
CO (Carbon Monoxide)	0	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-0.62	--
DT-EER (Drive Trace Energy Economy Rating)	-0.79	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-0.44	--
MFR FE (Manufacturer Fuel Economy)	33.74	99.8814464
NOX (Nitrogen Oxide)	0	--
N2O (Nitrous Oxide)	0	--
HC-NM (Non-methane Hydrocarbon)	0	--
NMOG (Non-methane organic gases)	0	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	0	--
Optional Carbon-Related Exhaust Emissions	0	--

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	0	--

Manufacturer Test Comments

R1S - Drive Mode: All-Purpose (Default Mode) Dual Motor, Large Battery Pack, and 21" Tires. Cycle 1: 337.36 Wh/mi

Certification Summary Information Report

Test Group	RRIVT00.0192	Evaporative/Refueling Family	--																		
Test #	PRIV10079232	Test Procedure	81 - Charge Depleting UDDS																		
Exhaust Test # for this Evap Test	--	Test Fuel Type	62 - Electricity																		
Test Date	03/10/2023	Fuel	Electricity																		
Fuel Batch ID	--	Fuel Calibration Number	--																		
Vehicle Class	MDPV (Federal Tier 2, GVWR 8501-10000)	DF Type	EPA Assigned																		
Verify Test Lab ID	FEV Michigan																				
E10 Evaporative Test Measurement Method	--																				
Test Start Odometer Reading	3699	Odometer Units	M																		
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--																		
State of Charge Delta	Yes																				
Drive Cycle Speed Tolerance Criteria	Used Part 86 (+/- 2 mph, +/- 1 sec)	Road Speed Fan Usage	Yes																		
PHEV/EV Charge Depleting Test Information																					
Recharge Event Voltage	240	Recharge Event Energy (kiloWatt-hours)	151.76																		
Charge Depleting Range (Calculated miles)	520.45	Charge Depleting Range (Actual miles)	520.45																		
Charge Depleting Range Highway (Calculated miles)	--	Derived 5-Cycle Coefficient Model Year	--																		
All Electric Range Unadjusted (miles)	--	Equivalent All Electric Range (miles)	520.45																		
Number of Charge Depleting Bags/Phases Conducted	4	Transition Bag/Phase Number	--																		
Charge Depleting Bag/Phase																					
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Charge Depleting Bag/Phase #	Test Result/Emission Name	Unrounded Test Result																			
1	Carbon-Related Exhaust Emissions	0																			
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Charge Depleting Bag/Phase #	Test Result/Emission Name	Unrounded Test Result																			
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10	Manufacturer Fuel Economy	24.89																			
Charge Depleting Bag/Phase																					

Certification Summary Information Report

Test Group	RRIVT00.0192	Evaporative/Refueling Family	--																		
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Charge Depleting Bag/Phase #	Test Result/Emission Name	Unrounded Test Result																			
11	Carbon-Related Exhaust Emissions	0																			
12	Drive Trace Absolute Speed Change Rating	0.41																			
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Charge Depleting Bag/Phase #	Test Result/Emission Name	Unrounded Test Result																			
16	Carbon-Related Exhaust Emissions	0																			
17	Drive Trace Absolute Speed Change Rating	0.12																			
18	Drive Trace Energy Economy Rating	-0.39																			
19	Drive Trace Inertia Work Ratio Rating	0.13																			
20	Manufacturer Fuel Economy	26.85																			
Manufacturer Test Comments																					
R1S - Drive Mode: All-Purpose (Default Mode) Dual Motor, Large Battery Pack, and 21" Tires. Cycle 1: 268.52 Wh/mi, Cycle 2: 256.00 Wh/mi, Cycle 3: 247.85 Wh/mi, Cycle 4: 248.91 Wh/mi. MCT Energy: 130731.77 Wh																					
Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	RAF	NMOG/NM HC Ratio	Diesel Adjustment Factor	Add DF	Mult DF	Certification Level	Standard	Pass/Fail									
Fed	150,000 miles	Federal Tier 3 Bin 0	CREE	0	--	--	--	0	--	0	--	--									
Fed	150,000 miles	Federal Tier 3 Bin 0	CREE	0	--	--	--	0	--	0	--	--									
Fed	150,000 miles	Federal Tier 3 Bin 0	CREE	0	--	--	--	0	--	0	--	--									
Fed	150,000 miles	Federal Tier 3 Bin 0	CREE	0	--	--	--	0	--	0	--	--									
CA	150,000 miles	California ZEV	CREE	0	--	--	--	0	--	0	--	--									
CA	150,000 miles	California ZEV	CREE	0	--	--	--	0	--	0	--	--									
CA	150,000 miles	California ZEV	CREE	0	--	--	--	0	--	0	--	--									
CA	150,000 miles	California ZEV	CREE	0	--	--	--	0	--	0	--	--									

Certification Summary Information Report

Test Group	RRIVT00.0192	Evaporative/Refueling Family	--																		
Test #	PRIV10079233	Test Procedure	84 - Charge Depleting Highway																		
Exhaust Test # for this Evap Test	--	Test Fuel Type	62 - Electricity																		
Test Date	03/10/2023	Fuel	Electricity																		
Fuel Batch ID	--	Fuel Calibration Number	--																		
Vehicle Class	MDPV (Federal Tier 2, GVWR 8501-10000)	DF Type	EPA Assigned																		
Verify Test Lab ID	FEV Michigan																				
E10 Evaporative Test Measurement Method	--																				
Test Start Odometer Reading	3699	Odometer Units	M																		
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--																		
State of Charge Delta	Yes																				
Drive Cycle Speed Tolerance Criteria	Used Part 86 (+/- 2 mph, +/- 1 sec)	Road Speed Fan Usage	Yes																		
PHEV/EV Charge Depleting Test Information																					
Recharge Event Voltage	240	Recharge Event Energy (kiloWatt-hours)	151.76																		
Charge Depleting Range (Calculated miles)	470.21	Charge Depleting Range (Actual miles)	470.21																		
Charge Depleting Range Highway (Calculated miles)	--	Derived 5-Cycle Coefficient Model Year	--																		
All Electric Range Unadjusted (miles)	--	Equivalent All Electric Range (miles)	470.21																		
Number of Charge Depleting Bags/Phases Conducted	2	Transition Bag/Phase Number	--																		
Charge Depleting Bag/Phase																					
<table border="1"> <thead> <tr> <th>Charge Depleting Bag/Phase #</th> <th>Test Result/Emission Name</th> <th>Unrounded Test Result</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Carbon-Related Exhaust Emissions</td> <td>0</td> </tr> <tr> <td>2</td> <td>Drive Trace Absolute Speed Change Rating</td> <td>1.82</td> </tr> <tr> <td>3</td> <td>Drive Trace Energy Economy Rating</td> <td>0.1</td> </tr> <tr> <td>4</td> <td>Drive Trace Inertia Work Ratio Rating</td> <td>2.07</td> </tr> <tr> <td>5</td> <td>Manufacturer Fuel Economy</td> <td>28.22</td> </tr> </tbody> </table>				Charge Depleting Bag/Phase #	Test Result/Emission Name	Unrounded Test Result	1	Carbon-Related Exhaust Emissions	0	2	Drive Trace Absolute Speed Change Rating	1.82	3	Drive Trace Energy Economy Rating	0.1	4	Drive Trace Inertia Work Ratio Rating	2.07	5	Manufacturer Fuel Economy	28.22
Charge Depleting Bag/Phase #	Test Result/Emission Name	Unrounded Test Result																			
1	Carbon-Related Exhaust Emissions	0																			
2	Drive Trace Absolute Speed Change Rating	1.82																			
3	Drive Trace Energy Economy Rating	0.1																			
4	Drive Trace Inertia Work Ratio Rating	2.07																			
5	Manufacturer Fuel Economy	28.22																			
Charge Depleting Bag/Phase																					
<table border="1"> <thead> <tr> <th>Charge Depleting Bag/Phase #</th> <th>Test Result/Emission Name</th> <th>Unrounded Test Result</th> </tr> </thead> <tbody> <tr> <td>6</td> <td>Carbon-Related Exhaust Emissions</td> <td>0</td> </tr> <tr> <td>7</td> <td>Drive Trace Absolute Speed Change Rating</td> <td>1.64</td> </tr> <tr> <td>8</td> <td>Drive Trace Energy Economy Rating</td> <td>0.03</td> </tr> <tr> <td>9</td> <td>Drive Trace Inertia Work Ratio Rating</td> <td>1.85</td> </tr> <tr> <td>10</td> <td>Manufacturer Fuel Economy</td> <td>27.38</td> </tr> </tbody> </table>				Charge Depleting Bag/Phase #	Test Result/Emission Name	Unrounded Test Result	6	Carbon-Related Exhaust Emissions	0	7	Drive Trace Absolute Speed Change Rating	1.64	8	Drive Trace Energy Economy Rating	0.03	9	Drive Trace Inertia Work Ratio Rating	1.85	10	Manufacturer Fuel Economy	27.38
Charge Depleting Bag/Phase #	Test Result/Emission Name	Unrounded Test Result																			
6	Carbon-Related Exhaust Emissions	0																			
7	Drive Trace Absolute Speed Change Rating	1.64																			
8	Drive Trace Energy Economy Rating	0.03																			
9	Drive Trace Inertia Work Ratio Rating	1.85																			
10	Manufacturer Fuel Economy	27.38																			
Manufacturer Test Comments	R1S - Drive Mode: All-Purpose (Default Mode) Dual Motor, Large Battery Pack, and 21" Tires. Cycle 1: 282.21 Wh/mi, Cycle 2: 273.84 Wh/mi MCT Energy: 130731.77 Wh																				

Certification Summary Information Report

Test Group		RRIVT00.0192				Evaporative/Refueling Family				--		
Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	RAF	NMOG/NM HC Ratio	Diesel Adjustment Factor	Add DF	Mult DF	Certification Level	Standard	Pass/Fail
Fed	150,000 miles	Federal Tier 3 Bin 0	CREE	0	--	--	--	0	--	0	--	--
Fed	150,000 miles	Federal Tier 3 Bin 0	CREE	0	--	--	--	0	--	0	--	--
CA	150,000 miles	California ZEV	CREE	0	--	--	--	0	--	0	--	--
CA	150,000 miles	California ZEV	CREE	0	--	--	--	0	--	0	--	--

Certification Summary Information Report

Test Group	RRIVT00.0192	Evaporative/Refueling Family	--																		
Test #	PRIV10079558	Test Procedure	86 - Charge Depleting 20 Degree F FTP																		
Exhaust Test # for this Evap Test	--	Test Fuel Type	62 - Electricity																		
Test Date	03/15/2023	Fuel	N/A																		
Fuel Batch ID	--	Fuel Calibration Number	--																		
Vehicle Class	N/A	DF Type	EPA Assigned																		
Verify Test Lab ID	FEV Michigan																				
E10 Evaporative Test Measurement Method	--																				
Test Start Odometer Reading	4192	Odometer Units	M																		
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--																		
State of Charge Delta	Yes																				
Drive Cycle Speed Tolerance Criteria	Used Part 86 (+/- 2 mph, +/- 1 sec)	Road Speed Fan Usage	Yes																		
PHEV/EV Charge Depleting Test Information																					
Recharge Event Voltage	240	Recharge Event Energy (kiloWatt-hours)	151.76																		
Charge Depleting Range (Calculated miles)	14.82	Charge Depleting Range (Actual miles)	14.82																		
Charge Depleting Range Highway (Calculated miles)	--	Derived 5-Cycle Coefficient Model Year	--																		
All Electric Range Unadjusted (miles)	--	Equivalent All Electric Range (miles)	14.82																		
Number of Charge Depleting Bags/Phases Conducted	4	Transition Bag/Phase Number	--																		
Charge Depleting Bag/Phase																					
<table border="1"> <thead> <tr> <th>Charge Depleting Bag/Phase #</th> <th>Test Result/Emission Name</th> <th>Unrounded Test Result</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Carbon-Related Exhaust Emissions</td> <td>0</td> </tr> <tr> <td>2</td> <td>Drive Trace Absolute Speed Change Rating</td> <td>0.75</td> </tr> <tr> <td>3</td> <td>Drive Trace Energy Economy Rating</td> <td>0.5</td> </tr> <tr> <td>4</td> <td>Drive Trace Inertia Work Ratio Rating</td> <td>0.6</td> </tr> <tr> <td>5</td> <td>Manufacturer Fuel Economy</td> <td>63.42</td> </tr> </tbody> </table>				Charge Depleting Bag/Phase #	Test Result/Emission Name	Unrounded Test Result	1	Carbon-Related Exhaust Emissions	0	2	Drive Trace Absolute Speed Change Rating	0.75	3	Drive Trace Energy Economy Rating	0.5	4	Drive Trace Inertia Work Ratio Rating	0.6	5	Manufacturer Fuel Economy	63.42
Charge Depleting Bag/Phase #	Test Result/Emission Name	Unrounded Test Result																			
1	Carbon-Related Exhaust Emissions	0																			
2	Drive Trace Absolute Speed Change Rating	0.75																			
3	Drive Trace Energy Economy Rating	0.5																			
4	Drive Trace Inertia Work Ratio Rating	0.6																			
5	Manufacturer Fuel Economy	63.42																			
Charge Depleting Bag/Phase																					
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Charge Depleting Bag/Phase #	Test Result/Emission Name	Unrounded Test Result																			
6	Carbon-Related Exhaust Emissions	0																			
7	Drive Trace Absolute Speed Change Rating	-0.55																			
8	Drive Trace Energy Economy Rating	-0.79																			
9	Drive Trace Inertia Work Ratio Rating	-0.89																			
10	Manufacturer Fuel Economy	52.27																			
Charge Depleting Bag/Phase																					

Certification Summary Information Report

Test Group	RRIVT00.0192	Evaporative/Refueling Family	--																		
<table><tr><td>Charge Depleting Bag/Phase #</td><td>Test Result/Emission Name</td><td>Unrounded Test Result</td></tr><tr><td>11</td><td>Carbon-Related Exhaust Emissions</td><td>0</td></tr><tr><td>12</td><td>Drive Trace Absolute Speed Change Rating</td><td>1.85</td></tr><tr><td>13</td><td>Drive Trace Energy Economy Rating</td><td>0.56</td></tr><tr><td>14</td><td>Drive Trace Inertia Work Ratio Rating</td><td>1.24</td></tr><tr><td>15</td><td>Manufacturer Fuel Economy</td><td>46.89</td></tr></table>				Charge Depleting Bag/Phase #	Test Result/Emission Name	Unrounded Test Result	11	Carbon-Related Exhaust Emissions	0	12	Drive Trace Absolute Speed Change Rating	1.85	13	Drive Trace Energy Economy Rating	0.56	14	Drive Trace Inertia Work Ratio Rating	1.24	15	Manufacturer Fuel Economy	46.89
Charge Depleting Bag/Phase #	Test Result/Emission Name	Unrounded Test Result																			
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Charge Depleting Bag/Phase #	Test Result/Emission Name	Unrounded Test Result																			
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17	Drive Trace Absolute Speed Change Rating	1.71																			
18	Drive Trace Energy Economy Rating	1.13																			
19	Drive Trace Inertia Work Ratio Rating	3.22																			
20	Manufacturer Fuel Economy	52.89																			
Manufacturer Test Comments																					
R1S - Drive Mode: All-Purpose (Default Mode) Dual Motor, Large Battery Pack, and 21" Tires. Cycle 1: 634.16 Wh/mi, Cycle 2: 522.73 Wh/mi, Cycle 3: 468.91 Wh/mi, Cycle 4: 528.87 Wh/mi,																					

Certification Summary Information Report

Test Group	RRIVT00.0192	Evaporative/Refueling Family	--						
Emission Data Vehicle Information									
Vehicle ID / Configuration	R1S040XR21 / 1	Manufacturer Vehicle Configuration Number	0						
Original Test Group Name	RRIVT00.0192	Original Evaporative/Refueling Family	--						
Original Test Vehicle Model Year	2024								
Vehicle Model									
Represented Test Vehicle Make	Rivian	Represented Test Vehicle Model	R1S Dual Standard (21in)						
Leak Family Details									
Leak Family Identifier	--	Leak Family Name	--						
Drive Sources and Fuel System Details									
	<table border="1"> <thead> <tr> <th>Drive Source and Fuel#</th><th>Drive Source</th><th>Fuel</th></tr> </thead> <tbody> <tr> <td>1</td><td>Electric Motor</td><td>Electricity</td></tr> </tbody> </table>	Drive Source and Fuel#	Drive Source	Fuel	1	Electric Motor	Electricity		
Drive Source and Fuel#	Drive Source	Fuel							
1	Electric Motor	Electricity							
Hybrid Indicator	No								
Multiple Fuel Storage	--	Multiple Fuel Combustion	--						
Fuel Cell Indicator	No	Rechargeable Energy Storage System Indicator	Yes						
Rechargeable Energy Storage System	Battery(s)	Rechargeable Energy Storage System, if 'Other'	--						
Off-board charge Capable Indicator	Yes								
Odometer Correction -- Initial	1	Odometer Correction Factor	1						
Odometer Correction Sign	+ = System Miles is equal to (Test odometer reading * Correction factor) + Initial system miles								
Odometer Correction Units	Miles								
Engine Code	264X2RW	Rated Horsepower	665						
Displacement (liters)	99.999								
Air Aspiration Method	Naturally Aspirated	Air Aspiration Method, if 'Other'	Electric						
Number of Air Aspiration Devices	--	Air Aspiration Device Configuration	--						
Charge Air Cooler Type	--	Drive Mode While Testing	Part-time 4-Wheel Drive						
Shift Indicator Light Usage	Not equipped	Aged Emission Components	4,000 (mi)						
Curb Weight (lbs)	6722	Equivalent Test Weight (pounds)	7000						
GVWR (lbs)	--	N/V Ratio	999						
Axle Ratio	9.99								
Transmission Type	Automatic	# of Transmission Gears	1						
Transmission Lockup	No	Creep Gear	No						

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Certification Summary Information Report

Test Group	RRIVT00.0192	Evaporative/Refueling Family	--																								
Test #	RRIV10084783	Test Procedure	77 - Multi-Cycle Test (MCT)																								
Exhaust Test # for this Evap Test	--	Test Fuel Type	62 - Electricity																								
Test Date	02/20/2024	Fuel	N/A																								
Fuel Batch ID	--	Fuel Calibration Number	--																								
Vehicle Class	N/A	DF Type	EPA Assigned																								
Verify Test Lab ID	FEV Michigan																										
E10 Evaporative Test Measurement Method	--																										
Test Start Odometer Reading	6785	Odometer Units	M																								
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--																								
State of Charge Delta	Yes																										
Drive Cycle Speed Tolerance Criteria	Used Part 86 (+/- 2 mph, +/- 1 sec)	Road Speed Fan Usage	Yes																								
PHEV/EV Charge Depleting Test Information																											
Recharge Event Voltage	240	Recharge Event Energy (kiloWatt-hours)	123.5																								
Charge Depleting Range (Calculated miles)	408.49	Charge Depleting Range (Actual miles)	408.49																								
Charge Depleting Range Highway (Calculated miles)	369.9	Derived 5-Cycle Coefficient Model Year	--																								
All Electric Range Unadjusted (miles)	--	Equivalent All Electric Range (miles)	408.49																								
Number of Charge Depleting Bags/Phases Conducted	8	Transition Bag/Phase Number	--																								
Charge Depleting Bag/Phase																											
<table border="1"> <thead> <tr> <th>Charge Depleting Bag/Phase #</th><th>Test Result/Emission Name</th><th>Unrounded Test Result</th></tr> </thead> <tbody> <tr> <td>1</td><td>Actual Distance Driven (miles)</td><td>32.81</td></tr> <tr> <td>2</td><td>Carbon-Related Exhaust Emissions</td><td>0</td></tr> <tr> <td>3</td><td>Drive Trace Absolute Speed Change Rating</td><td>27.18</td></tr> <tr> <td>4</td><td>Drive Trace Energy Economy Rating</td><td>-1.243</td></tr> <tr> <td>5</td><td>Drive Trace Inertia Work Ratio Rating</td><td>53.689</td></tr> <tr> <td>6</td><td>Integrated DC KW-HRS</td><td>11.457</td></tr> <tr> <td>7</td><td>Manufacturer Fuel Economy</td><td>28.25</td></tr> </tbody> </table>				Charge Depleting Bag/Phase #	Test Result/Emission Name	Unrounded Test Result	1	Actual Distance Driven (miles)	32.81	2	Carbon-Related Exhaust Emissions	0	3	Drive Trace Absolute Speed Change Rating	27.18	4	Drive Trace Energy Economy Rating	-1.243	5	Drive Trace Inertia Work Ratio Rating	53.689	6	Integrated DC KW-HRS	11.457	7	Manufacturer Fuel Economy	28.25
Charge Depleting Bag/Phase #	Test Result/Emission Name	Unrounded Test Result																									
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Charge Depleting Bag/Phase #	Test Result/Emission Name	Unrounded Test Result																									
8	Actual Distance Driven (miles)	7.418																									
9	Carbon-Related Exhaust Emissions	0																									
10	Drive Trace Absolute Speed Change Rating	1.96																									
11	Drive Trace Energy Economy Rating	1.981																									
12	Drive Trace Inertia Work Ratio Rating	2.777																									
13	Integrated DC KW-HRS	1.912																									
14	Manufacturer Fuel Economy	25.78																									

Certification Summary Information Report

Test Group	RRIVT00.0192	Evaporative/Refueling Family	--
Charge Depleting Bag/Phase			
Charge Depleting Bag/Phase #	Test Result/Emission Name	Unrounded Test Result	
15	Actual Distance Driven (miles)	231.55	
16	Carbon-Related Exhaust Emissions	0	
17	Drive Trace Absolute Speed Change Rating	19.14	
18	Drive Trace Energy Economy Rating	0.839	
19	Drive Trace Inertia Work Ratio Rating	38.206	
20	Integrated DC KW-HRS	80.923	
21	Manufacturer Fuel Economy	34.95	
Charge Depleting Bag/Phase			
Charge Depleting Bag/Phase #	Test Result/Emission Name	Unrounded Test Result	
22	Actual Distance Driven (miles)	7.407	
23	Carbon-Related Exhaust Emissions	0	
24	Drive Trace Absolute Speed Change Rating	0.75	
25	Drive Trace Energy Economy Rating	0.63	
26	Drive Trace Inertia Work Ratio Rating	1.196	
27	Integrated DC KW-HRS	1.91	
28	Manufacturer Fuel Economy	25.78	
Charge Depleting Bag/Phase			
Charge Depleting Bag/Phase #	Test Result/Emission Name	Unrounded Test Result	
29	Actual Distance Driven (miles)	10.246	
30	Carbon-Related Exhaust Emissions	0	
31	Drive Trace Absolute Speed Change Rating	12.59	
32	Drive Trace Energy Economy Rating	3.129	
33	Drive Trace Inertia Work Ratio Rating	16.846	
34	Integrated DC KW-HRS	2.895	
35	Manufacturer Fuel Economy	28.25	
Charge Depleting Bag/Phase			
Charge Depleting Bag/Phase #	Test Result/Emission Name	Unrounded Test Result	
36	Actual Distance Driven (miles)	7.443	
37	Carbon-Related Exhaust Emissions	0	
38	Drive Trace Absolute Speed Change Rating	1.04	
39	Drive Trace Energy Economy Rating	0.199	
40	Drive Trace Inertia Work Ratio Rating	0.603	
41	Integrated DC KW-HRS	2.031	
42	Manufacturer Fuel Economy	27.29	

Certification Summary Information Report

Test Group	RRIVT00.0192	Evaporative/Refueling Family	--																								
Charge Depleting Bag/Phase																											
<table><tr><th>Charge Depleting Bag/Phase #</th><th>Test Result/Emission Name</th><th>Unrounded Test Result</th></tr><tr><td>43</td><td>Actual Distance Driven (miles)</td><td>10.273</td></tr><tr><td>44</td><td>Carbon-Related Exhaust Emissions</td><td>0</td></tr><tr><td>45</td><td>Drive Trace Absolute Speed Change Rating</td><td>1.81</td></tr><tr><td>46</td><td>Drive Trace Energy Economy Rating</td><td>0.808</td></tr><tr><td>47</td><td>Drive Trace Inertia Work Ratio Rating</td><td>1.984</td></tr><tr><td>48</td><td>Integrated DC KW-HRS</td><td>2.99</td></tr><tr><td>49</td><td>Manufacturer Fuel Economy</td><td>29.1</td></tr></table>				Charge Depleting Bag/Phase #	Test Result/Emission Name	Unrounded Test Result	43	Actual Distance Driven (miles)	10.273	44	Carbon-Related Exhaust Emissions	0	45	Drive Trace Absolute Speed Change Rating	1.81	46	Drive Trace Energy Economy Rating	0.808	47	Drive Trace Inertia Work Ratio Rating	1.984	48	Integrated DC KW-HRS	2.99	49	Manufacturer Fuel Economy	29.1
Charge Depleting Bag/Phase #	Test Result/Emission Name	Unrounded Test Result																									
43	Actual Distance Driven (miles)	10.273																									
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47	Drive Trace Inertia Work Ratio Rating	1.984																									
48	Integrated DC KW-HRS	2.99																									
49	Manufacturer Fuel Economy	29.1																									
Charge Depleting Bag/Phase																											
<table><tr><th>Charge Depleting Bag/Phase #</th><th>Test Result/Emission Name</th><th>Unrounded Test Result</th></tr><tr><td>50</td><td>Actual Distance Driven (miles)</td><td>7.462</td></tr><tr><td>51</td><td>Carbon-Related Exhaust Emissions</td><td>0</td></tr><tr><td>52</td><td>Drive Trace Absolute Speed Change Rating</td><td>1.47</td></tr><tr><td>53</td><td>Drive Trace Energy Economy Rating</td><td>0.865</td></tr><tr><td>54</td><td>Drive Trace Inertia Work Ratio Rating</td><td>1.612</td></tr><tr><td>55</td><td>Integrated DC KW-HRS</td><td>1.96</td></tr><tr><td>56</td><td>Manufacturer Fuel Economy</td><td>26.27</td></tr></table>				Charge Depleting Bag/Phase #	Test Result/Emission Name	Unrounded Test Result	50	Actual Distance Driven (miles)	7.462	51	Carbon-Related Exhaust Emissions	0	52	Drive Trace Absolute Speed Change Rating	1.47	53	Drive Trace Energy Economy Rating	0.865	54	Drive Trace Inertia Work Ratio Rating	1.612	55	Integrated DC KW-HRS	1.96	56	Manufacturer Fuel Economy	26.27
Charge Depleting Bag/Phase #	Test Result/Emission Name	Unrounded Test Result																									
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55	Integrated DC KW-HRS	1.96																									
56	Manufacturer Fuel Economy	26.27																									
Manufacturer Test Comments																											
R1S - Drive Mode: All-Purpose (Default Mode) Performance Dual Motor, Standard Battery Pack, and 21" Tires. UDDS1: 272.90 Wh/mi, UDDS2: 262.65 Wh/mi, UDDS3: 257.81 Wh/mi, UDDS4: 257.80 Wh/mi. UDDS1 Energy: 2031.32 Wh HWY1: 291.02 Wh/mi, HWY2: 282.53 Wh/mi MCT Energy: 106077.78 Wh																											

Certification Summary Information Report

Test Group	RRIVT00.0192	Evaporative/Refueling Family	--						
Emission Data Vehicle Information									
Vehicle ID / Configuration	R1S040XR22 / 0	Manufacturer Vehicle Configuration Number	0						
Original Test Group Name	PRIVT00.0192	Original Evaporative/Refueling Family	--						
Original Test Vehicle Model Year	2023								
Vehicle Model									
Represented Test Vehicle Make	Rivian	Represented Test Vehicle Model	R1S 22in Performance Dual Large						
Leak Family Details									
Leak Family Identifier	--	Leak Family Name	--						
Drive Sources and Fuel System Details									
	<table border="1"> <thead> <tr> <th>Drive Source and Fuel#</th><th>Drive Source</th><th>Fuel</th></tr> </thead> <tbody> <tr> <td>1</td><td>Electric Motor</td><td>Electricity</td></tr> </tbody> </table>	Drive Source and Fuel#	Drive Source	Fuel	1	Electric Motor	Electricity		
Drive Source and Fuel#	Drive Source	Fuel							
1	Electric Motor	Electricity							
Hybrid Indicator	No								
Multiple Fuel Storage	--	Multiple Fuel Combustion	--						
Fuel Cell Indicator	No	Rechargeable Energy Storage System Indicator	Yes						
Rechargeable Energy Storage System	Battery(s)	Rechargeable Energy Storage System, if 'Other'	--						
Off-board charge Capable Indicator	Yes								
Odometer Correction -- Initial	1	Odometer Correction Factor	1						
Odometer Correction Sign	+ = System Miles is equal to (Test odometer reading * Correction factor) + Initial system miles								
Odometer Correction Units	Miles								
Engine Code	264X2RW	Rated Horsepower	665						
Displacement (liters)	99.999								
Air Aspiration Method	Naturally Aspirated	Air Aspiration Method, if 'Other'	Electric						
Number of Air Aspiration Devices	--	Air Aspiration Device Configuration	--						
Charge Air Cooler Type	--	Drive Mode While Testing	Part-time 4-Wheel Drive						
Shift Indicator Light Usage	Not equipped	Aged Emission Components	4,000 (mi)						
Curb Weight (lbs)	6735	Equivalent Test Weight (pounds)	7000						
GVWR (lbs)	--	N/V Ratio	999						
Axle Ratio	9.99								
Transmission Type	Automatic	# of Transmission Gears	1						
Transmission Lockup	No	Creep Gear	No						

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Certification Summary Information Report

Test Group	RRIVT00.0192	Evaporative/Refueling Family	--
Test #	PRIV10079977	Test Procedure	2 - CVS 75 and later (w/o can. load)
Exhaust Test # for this Evap Test	--	Test Fuel Type	62 - Electricity
Test Date	04/04/2023	Fuel	Electricity
Fuel Batch ID	--	Fuel Calibration Number	--
Vehicle Class	MDPV (Federal Tier 2, GVWR 8501-10000)	DF Type	EPA Assigned
Verify Test Lab ID	FEV Michigan		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4790	Odometer Units	M
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--
State of Charge Delta	Yes		
Drive Cycle Speed Tolerance Criteria	Used Part 86 (+/- 2 mph, +/- 1 sec)	Road Speed Fan Usage	Yes

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (kilowatt-hour per 100 miles)
METHANE (CH4 - Methane)	0	--
CO (Carbon Monoxide)	0	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	0.57	--
DT-EER (Drive Trace Energy Economy Rating)	0.02	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	0.62	--
MFR FE (Manufacturer Fuel Economy)	27.11	124.3083733
NOX (Nitrogen Oxide)	0	--
N2O (Nitrous Oxide)	0	--
HC-NM (Non-methane Hydrocarbon)	0	--
NMOG (Non-methane organic gases)	0	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	0	0
Optional Carbon-Related Exhaust Emissions	0	0

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	0	--

Manufacturer Test Comments

R1S - Drive Mode: All-Purpose (Default Mode) Dual Motor, Large Battery Pack, and 22" Tires. Cycle 1: 298.43 Wh/mi, Cycle 2: 252.47 Wh/mi, Cycle 3: 288.42 Wh/mi, Cycle 4: 248.31 Wh/mi.

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Certification Summary Information Report

Test Group	RRIVT00.0192	Evaporative/Refueling Family	--
Test #	PRIV10079979	Test Procedure	3 - HWFE
Exhaust Test # for this Evap Test	--	Test Fuel Type	62 - Electricity
Test Date	04/04/2023	Fuel	N/A
Fuel Batch ID	--	Fuel Calibration Number	--
Vehicle Class	N/A	DF Type	EPA Assigned
Verify Test Lab ID	FEV Michigan		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4790	Odometer Units	M
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--
State of Charge Delta	Yes		
Drive Cycle Speed Tolerance Criteria	Used Part 86 (+/- 2 mph, +/- 1 sec)	Road Speed Fan Usage	Yes

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (kilowatt-hour per 100 miles)
METHANE (CH4 - Methane)	0	--
CO (Carbon Monoxide)	0	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	0.24	--
DT-EER (Drive Trace Energy Economy Rating)	0.21	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	0.08	--
MFR FE (Manufacturer Fuel Economy)	29.68	113.5444744
NOX (Nitrogen Oxide)	0	--
N2O (Nitrous Oxide)	0	--
HC-NM (Non-methane Hydrocarbon)	0	--
NMOG (Non-methane organic gases)	0	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	0	0
Optional Carbon-Related Exhaust Emissions	0	0

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	0	--

Manufacturer Test Comments

R1S - Drive Mode: All-Purpose (Default Mode) Dual Motor, Large Battery Pack, and 22" Tires. Cycle 1: 296.78 Wh/mi

Certification Summary Information Report

Test Group	RRIVT00.0192	Evaporative/Refueling Family	--
Test #	PRIV10079984	Test Procedure	90 - US06
Exhaust Test # for this Evap Test	--	Test Fuel Type	62 - Electricity
Test Date	04/05/2023	Fuel	N/A
Fuel Batch ID	--	Fuel Calibration Number	--
Vehicle Class	N/A	DF Type	EPA Assigned
Verify Test Lab ID	FEV Michigan		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4838	Odometer Units	M
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--
State of Charge Delta	Yes		
Drive Cycle Speed Tolerance Criteria	Used Part 86 (+/- 2 mph, +/- 1 sec)	Road Speed Fan Usage	Yes

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (kilowatt-hour per 100 miles)
METHANE (CH4 - Methane)	0	--
CO (Carbon Monoxide)	0	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	1.11	--
DT-EER (Drive Trace Energy Economy Rating)	2.73	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	4.32	--
MFR FE (Manufacturer Fuel Economy)	38.56	87.3962656
NOX (Nitrogen Oxide)	0	--
N2O (Nitrous Oxide)	0	--
HC-NM (Non-methane Hydrocarbon)	0	--
NMOG (Non-methane organic gases)	0	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	0	--
Optional Carbon-Related Exhaust Emissions	0	--

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	0	--

Manufacturer Test Comments

R1S - Drive Mode: All-Purpose (Default Mode) Dual Motor, Large Battery Pack, and 22" Tires. Cycle 1 (City1): 362.89 Wh/mi, Cycle 2 (HWY): 384.71 Wh/mi, Cycle 3 (City2): 456.02 Wh/mi

Certification Summary Information Report

Test Group	RRIVT00.0192	Evaporative/Refueling Family	--
Test #	PRIV10079985	Test Procedure	95 - SC03
Exhaust Test # for this Evap Test	--	Test Fuel Type	62 - Electricity
Test Date	04/05/2023	Fuel	N/A
Fuel Batch ID	--	Fuel Calibration Number	--
Vehicle Class	N/A	DF Type	EPA Assigned
Verify Test Lab ID	FEV Michigan		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4831	Odometer Units	M
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--
State of Charge Delta	Yes		
Drive Cycle Speed Tolerance Criteria	Used Part 86 (+/- 2 mph, +/- 1 sec)	Road Speed Fan Usage	Yes

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (kilowatt-hour per 100 miles)
METHANE (CH4 - Methane)	0	--
CO (Carbon Monoxide)	0	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-0.12	--
DT-EER (Drive Trace Energy Economy Rating)	-0.43	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-0.72	--
MFR FE (Manufacturer Fuel Economy)	35.04	96.1757991
NOX (Nitrogen Oxide)	0	--
N2O (Nitrous Oxide)	0	--
HC-NM (Non-methane Hydrocarbon)	0	--
NMOG (Non-methane organic gases)	0	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	0	--
Optional Carbon-Related Exhaust Emissions	0	--

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	0	--

Manufacturer Test Comments

R1S - Drive Mode: All-Purpose (Default Mode) Dual Motor, Large Battery Pack, and 22" Tires. Cycle 1: 350.35 Wh/mi

Certification Summary Information Report

Test Group	RRIVT00.0192	Evaporative/Refueling Family	--																		
Test #	PRIV10079973	Test Procedure	81 - Charge Depleting UDDS																		
Exhaust Test # for this Evap Test	--	Test Fuel Type	62 - Electricity																		
Test Date	03/27/2023	Fuel	Electricity																		
Fuel Batch ID	--	Fuel Calibration Number	--																		
Vehicle Class	MDPV (Federal Tier 2, GVWR 8501-10000)	DF Type	EPA Assigned																		
Verify Test Lab ID	FEV Michigan																				
E10 Evaporative Test Measurement Method	--																				
Test Start Odometer Reading	4319	Odometer Units	M																		
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--																		
State of Charge Delta	Yes																				
Drive Cycle Speed Tolerance Criteria	Used Part 86 (+/- 2 mph, +/- 1 sec)	Road Speed Fan Usage	Yes																		
PHEV/EV Charge Depleting Test Information																					
Recharge Event Voltage	240	Recharge Event Energy (kiloWatt-hours)	151.99																		
Charge Depleting Range (Calculated miles)	505.78	Charge Depleting Range (Actual miles)	505.78																		
Charge Depleting Range Highway (Calculated miles)	--	Derived 5-Cycle Coefficient Model Year	--																		
All Electric Range Unadjusted (miles)	--	Equivalent All Electric Range (miles)	505.78																		
Number of Charge Depleting Bags/Phases Conducted	4	Transition Bag/Phase Number	--																		
Charge Depleting Bag/Phase																					
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Charge Depleting Bag/Phase #	Test Result/Emission Name	Unrounded Test Result																			
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Charge Depleting Bag/Phase #	Test Result/Emission Name	Unrounded Test Result																			
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10	Manufacturer Fuel Economy	25.73																			
Charge Depleting Bag/Phase																					

Certification Summary Information Report

Test Group	RRIVT00.0192	Evaporative/Refueling Family	--																		
<table><tr><th>Charge Depleting Bag/Phase #</th><th>Test Result/Emission Name</th><th>Unrounded Test Result</th></tr><tr><td>11</td><td>Carbon-Related Exhaust Emissions</td><td>0</td></tr><tr><td>12</td><td>Drive Trace Absolute Speed Change Rating</td><td>-0.89</td></tr><tr><td>13</td><td>Drive Trace Energy Economy Rating</td><td>-0.51</td></tr><tr><td>14</td><td>Drive Trace Inertia Work Ratio Rating</td><td>-0.92</td></tr><tr><td>15</td><td>Manufacturer Fuel Economy</td><td>25.7</td></tr></table>				Charge Depleting Bag/Phase #	Test Result/Emission Name	Unrounded Test Result	11	Carbon-Related Exhaust Emissions	0	12	Drive Trace Absolute Speed Change Rating	-0.89	13	Drive Trace Energy Economy Rating	-0.51	14	Drive Trace Inertia Work Ratio Rating	-0.92	15	Manufacturer Fuel Economy	25.7
Charge Depleting Bag/Phase #	Test Result/Emission Name	Unrounded Test Result																			
11	Carbon-Related Exhaust Emissions	0																			
12	Drive Trace Absolute Speed Change Rating	-0.89																			
13	Drive Trace Energy Economy Rating	-0.51																			
14	Drive Trace Inertia Work Ratio Rating	-0.92																			
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Charge Depleting Bag/Phase #	Test Result/Emission Name	Unrounded Test Result																			
16	Carbon-Related Exhaust Emissions	0																			
17	Drive Trace Absolute Speed Change Rating	-2.65																			
18	Drive Trace Energy Economy Rating	-2.33																			
19	Drive Trace Inertia Work Ratio Rating	-3.69																			
20	Manufacturer Fuel Economy	26.3																			
Manufacturer Test Comments																					
R1S - Drive Mode: All-Purpose (Default Mode) Dual Motor, Large Battery Pack, and 22" Tires. Cycle 1: 271.93 Wh/mi, Cycle 2: 262.99 Wh/mi, Cycle 3: 257.29 Wh/mi, Cycle 4: 257.02 Wh/mi. MCT Energy: 131146.29 Wh																					
Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	RAF	NMOG/NM HC Ratio	Diesel Adjustment Factor	Add DF	Mult DF	Certification Level	Standard	Pass/Fail									
Fed	150,000 miles	Federal Tier 3 Bin 0	CREE	0	--	--	--	0	--	0	--	--									
Fed	150,000 miles	Federal Tier 3 Bin 0	CREE	0	--	--	--	0	--	0	--	--									
Fed	150,000 miles	Federal Tier 3 Bin 0	CREE	0	--	--	--	0	--	0	--	--									
Fed	150,000 miles	Federal Tier 3 Bin 0	CREE	0	--	--	--	0	--	0	--	--									
CA	150,000 miles	California ZEV	CREE	0	--	--	--	0	--	0	--	--									
CA	150,000 miles	California ZEV	CREE	0	--	--	--	0	--	0	--	--									
CA	150,000 miles	California ZEV	CREE	0	--	--	--	0	--	0	--	--									
CA	150,000 miles	California ZEV	CREE	0	--	--	--	0	--	0	--	--									

Certification Summary Information Report

Test Group	RRIVT00.0192	Evaporative/Refueling Family	--																		
Test #	PRIV10079974	Test Procedure	84 - Charge Depleting Highway																		
Exhaust Test # for this Evap Test	--	Test Fuel Type	62 - Electricity																		
Test Date	03/27/2023	Fuel	Electricity																		
Fuel Batch ID	--	Fuel Calibration Number	--																		
Vehicle Class	MDPV (Federal Tier 2, GVWR 8501-10000)	DF Type	EPA Assigned																		
Verify Test Lab ID	FEV Michigan																				
E10 Evaporative Test Measurement Method	--																				
Test Start Odometer Reading	4319	Odometer Units	M																		
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--																		
State of Charge Delta	Yes																				
Drive Cycle Speed Tolerance Criteria	Used Part 86 (+/- 2 mph, +/- 1 sec)	Road Speed Fan Usage	Yes																		
PHEV/EV Charge Depleting Test Information																					
Recharge Event Voltage	240	Recharge Event Energy (kiloWatt-hours)	151.99																		
Charge Depleting Range (Calculated miles)	449.75	Charge Depleting Range (Actual miles)	449.75																		
Charge Depleting Range Highway (Calculated miles)	--	Derived 5-Cycle Coefficient Model Year	--																		
All Electric Range Unadjusted (miles)	--	Equivalent All Electric Range (miles)	449.75																		
Number of Charge Depleting Bags/Phases Conducted	2	Transition Bag/Phase Number	--																		
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Charge Depleting Bag/Phase #	Test Result/Emission Name	Unrounded Test Result																			
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Charge Depleting Bag/Phase #	Test Result/Emission Name	Unrounded Test Result																			
6	Carbon-Related Exhaust Emissions	0																			
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8	Drive Trace Energy Economy Rating	-0.42																			
9	Drive Trace Inertia Work Ratio Rating	-0.7																			
10	Manufacturer Fuel Economy	28.86																			
Manufacturer Test Comments	R1S - Drive Mode: All-Purpose (Default Mode) Dual Motor, Large Battery Pack, and 22" Tires. Cycle 1: 294.63 Wh/mi, Cycle 2: 288.58 Wh/mi MCT Energy: 131146.29 Wh																				

Certification Summary Information Report

Test Group		RRIVT00.0192				Evaporative/Refueling Family				--		
Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	RAF	NMOG/NM HC Ratio	Diesel Adjustment Factor	Add DF	Mult DF	Certification Level	Standard	Pass/Fail
Fed	150,000 miles	Federal Tier 3 Bin 0	CREE	0	--	--	--	0	--	0	--	--
Fed	150,000 miles	Federal Tier 3 Bin 0	CREE	0	--	--	--	0	--	0	--	--
CA	150,000 miles	California ZEV	CREE	0	--	--	--	0	--	0	--	--
CA	150,000 miles	California ZEV	CREE	0	--	--	--	0	--	0	--	--

Certification Summary Information Report

Test Group	RRIVT00.0192	Evaporative/Refueling Family	--																		
Test #	PRIV10079986	Test Procedure	86 - Charge Depleting 20 Degree F FTP																		
Exhaust Test # for this Evap Test	--	Test Fuel Type	62 - Electricity																		
Test Date	04/03/2023	Fuel	N/A																		
Fuel Batch ID	--	Fuel Calibration Number	--																		
Vehicle Class	N/A	DF Type	EPA Assigned																		
Verify Test Lab ID	FEV Michigan																				
E10 Evaporative Test Measurement Method	--																				
Test Start Odometer Reading	4775	Odometer Units	M																		
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--																		
State of Charge Delta	Yes																				
Drive Cycle Speed Tolerance Criteria	Used Part 86 (+/- 2 mph, +/- 1 sec)	Road Speed Fan Usage	Yes																		
PHEV/EV Charge Depleting Test Information																					
Recharge Event Voltage	240	Recharge Event Energy (kiloWatt-hours)	151.99																		
Charge Depleting Range (Calculated miles)	14.88	Charge Depleting Range (Actual miles)	14.88																		
Charge Depleting Range Highway (Calculated miles)	--	Derived 5-Cycle Coefficient Model Year	--																		
All Electric Range Unadjusted (miles)	--	Equivalent All Electric Range (miles)	14.88																		
Number of Charge Depleting Bags/Phases Conducted	4	Transition Bag/Phase Number	--																		
Charge Depleting Bag/Phase																					
<table border="1"> <thead> <tr> <th>Charge Depleting Bag/Phase #</th> <th>Test Result/Emission Name</th> <th>Unrounded Test Result</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Carbon-Related Exhaust Emissions</td> <td>0</td> </tr> <tr> <td>2</td> <td>Drive Trace Absolute Speed Change Rating</td> <td>1.53</td> </tr> <tr> <td>3</td> <td>Drive Trace Energy Economy Rating</td> <td>0.43</td> </tr> <tr> <td>4</td> <td>Drive Trace Inertia Work Ratio Rating</td> <td>2.36</td> </tr> <tr> <td>5</td> <td>Manufacturer Fuel Economy</td> <td>46.42</td> </tr> </tbody> </table>				Charge Depleting Bag/Phase #	Test Result/Emission Name	Unrounded Test Result	1	Carbon-Related Exhaust Emissions	0	2	Drive Trace Absolute Speed Change Rating	1.53	3	Drive Trace Energy Economy Rating	0.43	4	Drive Trace Inertia Work Ratio Rating	2.36	5	Manufacturer Fuel Economy	46.42
Charge Depleting Bag/Phase #	Test Result/Emission Name	Unrounded Test Result																			
1	Carbon-Related Exhaust Emissions	0																			
2	Drive Trace Absolute Speed Change Rating	1.53																			
3	Drive Trace Energy Economy Rating	0.43																			
4	Drive Trace Inertia Work Ratio Rating	2.36																			
5	Manufacturer Fuel Economy	46.42																			
Charge Depleting Bag/Phase																					
<table border="1"> <thead> <tr> <th>Charge Depleting Bag/Phase #</th> <th>Test Result/Emission Name</th> <th>Unrounded Test Result</th> </tr> </thead> <tbody> <tr> <td>6</td> <td>Carbon-Related Exhaust Emissions</td> <td>0</td> </tr> <tr> <td>7</td> <td>Drive Trace Absolute Speed Change Rating</td> <td>1.12</td> </tr> <tr> <td>8</td> <td>Drive Trace Energy Economy Rating</td> <td>1.01</td> </tr> <tr> <td>9</td> <td>Drive Trace Inertia Work Ratio Rating</td> <td>2.76</td> </tr> <tr> <td>10</td> <td>Manufacturer Fuel Economy</td> <td>63.26</td> </tr> </tbody> </table>				Charge Depleting Bag/Phase #	Test Result/Emission Name	Unrounded Test Result	6	Carbon-Related Exhaust Emissions	0	7	Drive Trace Absolute Speed Change Rating	1.12	8	Drive Trace Energy Economy Rating	1.01	9	Drive Trace Inertia Work Ratio Rating	2.76	10	Manufacturer Fuel Economy	63.26
Charge Depleting Bag/Phase #	Test Result/Emission Name	Unrounded Test Result																			
6	Carbon-Related Exhaust Emissions	0																			
7	Drive Trace Absolute Speed Change Rating	1.12																			
8	Drive Trace Energy Economy Rating	1.01																			
9	Drive Trace Inertia Work Ratio Rating	2.76																			
10	Manufacturer Fuel Economy	63.26																			
Charge Depleting Bag/Phase																					

Certification Summary Information Report

Test Group	RRIVT00.0192	Evaporative/Refueling Family	--																		
<table><tr><th>Charge Depleting Bag/Phase #</th><th>Test Result/Emission Name</th><th>Unrounded Test Result</th></tr><tr><td>11</td><td>Carbon-Related Exhaust Emissions</td><td>0</td></tr><tr><td>12</td><td>Drive Trace Absolute Speed Change Rating</td><td>1.89</td></tr><tr><td>13</td><td>Drive Trace Energy Economy Rating</td><td>0.7</td></tr><tr><td>14</td><td>Drive Trace Inertia Work Ratio Rating</td><td>1.82</td></tr><tr><td>15</td><td>Manufacturer Fuel Economy</td><td>50.75</td></tr></table>				Charge Depleting Bag/Phase #	Test Result/Emission Name	Unrounded Test Result	11	Carbon-Related Exhaust Emissions	0	12	Drive Trace Absolute Speed Change Rating	1.89	13	Drive Trace Energy Economy Rating	0.7	14	Drive Trace Inertia Work Ratio Rating	1.82	15	Manufacturer Fuel Economy	50.75
Charge Depleting Bag/Phase #	Test Result/Emission Name	Unrounded Test Result																			
11	Carbon-Related Exhaust Emissions	0																			
12	Drive Trace Absolute Speed Change Rating	1.89																			
13	Drive Trace Energy Economy Rating	0.7																			
14	Drive Trace Inertia Work Ratio Rating	1.82																			
15	Manufacturer Fuel Economy	50.75																			
Charge Depleting Bag/Phase																					
<table><tr><th>Charge Depleting Bag/Phase #</th><th>Test Result/Emission Name</th><th>Unrounded Test Result</th></tr><tr><td>16</td><td>Carbon-Related Exhaust Emissions</td><td>0</td></tr><tr><td>17</td><td>Drive Trace Absolute Speed Change Rating</td><td>1.2</td></tr><tr><td>18</td><td>Drive Trace Energy Economy Rating</td><td>-0.15</td></tr><tr><td>19</td><td>Drive Trace Inertia Work Ratio Rating</td><td>1.25</td></tr><tr><td>20</td><td>Manufacturer Fuel Economy</td><td>43.32</td></tr></table>				Charge Depleting Bag/Phase #	Test Result/Emission Name	Unrounded Test Result	16	Carbon-Related Exhaust Emissions	0	17	Drive Trace Absolute Speed Change Rating	1.2	18	Drive Trace Energy Economy Rating	-0.15	19	Drive Trace Inertia Work Ratio Rating	1.25	20	Manufacturer Fuel Economy	43.32
Charge Depleting Bag/Phase #	Test Result/Emission Name	Unrounded Test Result																			
16	Carbon-Related Exhaust Emissions	0																			
17	Drive Trace Absolute Speed Change Rating	1.2																			
18	Drive Trace Energy Economy Rating	-0.15																			
19	Drive Trace Inertia Work Ratio Rating	1.25																			
20	Manufacturer Fuel Economy	43.32																			
Manufacturer Test Comments																					
R1S - Drive Mode: All-Purpose (Default Mode) Dual Motor, Large Battery Pack, and 22" Tires. Cycle 1: 632.63 Wh/mi, Cycle 2: 507.51 Wh/mi, Cycle 3: 464.22 Wh/mi, Cycle 4: 433.19 Wh/mi,																					

Certification Summary Information Report

Test Group	RRIVT00.0192	Evaporative/Refueling Family	--						
Emission Data Vehicle Information									
Vehicle ID / Configuration	R1S040XR22 / 1	Manufacturer Vehicle Configuration Number	0						
Original Test Group Name	RRIVT00.0192	Original Evaporative/Refueling Family	--						
Original Test Vehicle Model Year	2024								
Vehicle Model									
Represented Test Vehicle Make	Rivian	Represented Test Vehicle Model	R1T Dual Standard (22in)						
Leak Family Details									
Leak Family Identifier	--	Leak Family Name	--						
Drive Sources and Fuel System Details									
	<table border="1"> <tr> <th>Drive Source and Fuel#</th><th>Drive Source</th><th>Fuel</th></tr> <tr> <td>1</td><td>Electric Motor</td><td>Electricity</td></tr> </table>	Drive Source and Fuel#	Drive Source	Fuel	1	Electric Motor	Electricity		
Drive Source and Fuel#	Drive Source	Fuel							
1	Electric Motor	Electricity							
Hybrid Indicator	No								
Multiple Fuel Storage	--	Multiple Fuel Combustion	--						
Fuel Cell Indicator	No	Rechargeable Energy Storage System Indicator	Yes						
Rechargeable Energy Storage System	Battery(s)	Rechargeable Energy Storage System, if 'Other'	--						
Off-board charge Capable Indicator	Yes								
Odometer Correction -- Initial	1	Odometer Correction Factor	1						
Odometer Correction Sign	+ = System Miles is equal to (Test odometer reading * Correction factor) + Initial system miles								
Odometer Correction Units	Miles								
Engine Code	264X2RW	Rated Horsepower	665						
Displacement (liters)	99.999								
Air Aspiration Method	Naturally Aspirated	Air Aspiration Method, if 'Other'	Electric						
Number of Air Aspiration Devices	--	Air Aspiration Device Configuration	--						
Charge Air Cooler Type	--	Drive Mode While Testing	Part-time 4-Wheel Drive						
Shift Indicator Light Usage	Not equipped	Aged Emission Components	4,000 (mi)						
Curb Weight (lbs)	6735	Equivalent Test Weight (pounds)	7000						
GVWR (lbs)	--	N/V Ratio	999						
Axle Ratio	9.99								
Transmission Type	Automatic	# of Transmission Gears	1						
Transmission Lockup	No	Creep Gear	No						

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Certification Summary Information Report

Test Group	RRIVT00.0192	Evaporative/Refueling Family	--
Test #	RRIV10084784	Test Procedure	77 - Multi-Cycle Test (MCT)
Exhaust Test # for this Evap Test	--	Test Fuel Type	62 - Electricity
Test Date	02/24/2024	Fuel	N/A
Fuel Batch ID	--	Fuel Calibration Number	--
Vehicle Class	N/A	DF Type	EPA Assigned
Verify Test Lab ID	ATDS California		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	7545	Odometer Units	M
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--
State of Charge Delta	Yes		
Drive Cycle Speed Tolerance Criteria	Used Part 86 (+/- 2 mph, +/- 1 sec)	Road Speed Fan Usage	Yes
PHEV/EV Charge Depleting Test Information			
Recharge Event Voltage	240	Recharge Event Energy (kiloWatt-hours)	124.11
Charge Depleting Range (Calculated miles)	388.96	Charge Depleting Range (Actual miles)	388.96
Charge Depleting Range Highway (Calculated miles)	347.47	Derived 5-Cycle Coefficient Model Year	--
All Electric Range Unadjusted (miles)	--	Equivalent All Electric Range (miles)	388.96
Number of Charge Depleting Bags/Phases Conducted	8	Transition Bag/Phase Number	--
Charge Depleting Bag/Phase			
Charge Depleting Bag/Phase #	Test Result/Emission Name	Unrounded Test Result	
1	Actual Distance Driven (miles)	7.429	
2	Carbon-Related Exhaust Emissions	0	
3	Drive Trace Absolute Speed Change Rating	0.63	
4	Drive Trace Energy Economy Rating	-0.003	
5	Drive Trace Inertia Work Ratio Rating	0.694	
6	Integrated DC KW-HRS	2.024	
7	Manufacturer Fuel Economy	27.24	
Charge Depleting Bag/Phase			
Charge Depleting Bag/Phase #	Test Result/Emission Name	Unrounded Test Result	
8	Actual Distance Driven (miles)	7.475	
9	Carbon-Related Exhaust Emissions	0	
10	Drive Trace Absolute Speed Change Rating	0.64	
11	Drive Trace Energy Economy Rating	1.054	
12	Drive Trace Inertia Work Ratio Rating	1.546	
13	Integrated DC KW-HRS	2.031	
14	Manufacturer Fuel Economy	27.18	

Certification Summary Information Report

Test Group	RRIVT00.0192	Evaporative/Refueling Family	--
Charge Depleting Bag/Phase			
Charge Depleting Bag/Phase #	Test Result/Emission Name	Unrounded Test Result	
15	Actual Distance Driven (miles)	10.263	
16	Carbon-Related Exhaust Emissions	0	
17	Drive Trace Absolute Speed Change Rating	7.13	
18	Drive Trace Energy Economy Rating	1.592	
19	Drive Trace Inertia Work Ratio Rating	9.671	
20	Integrated DC KW-HRS	3.142	
21	Manufacturer Fuel Economy	30.61	
Charge Depleting Bag/Phase			
Charge Depleting Bag/Phase #	Test Result/Emission Name	Unrounded Test Result	
22	Actual Distance Driven (miles)	7.414	
23	Carbon-Related Exhaust Emissions	0	
24	Drive Trace Absolute Speed Change Rating	2.48	
25	Drive Trace Energy Economy Rating	1.949	
26	Drive Trace Inertia Work Ratio Rating	3.085	
27	Integrated DC KW-HRS	2.088	
28	Manufacturer Fuel Economy	28.16	
Charge Depleting Bag/Phase			
Charge Depleting Bag/Phase #	Test Result/Emission Name	Unrounded Test Result	
29	Actual Distance Driven (miles)	213.826	
30	Carbon-Related Exhaust Emissions	0	
31	Drive Trace Absolute Speed Change Rating	22.8	
32	Drive Trace Energy Economy Rating	0.82	
33	Drive Trace Inertia Work Ratio Rating	41.485	
34	Integrated DC KW-HRS	82.555	
35	Manufacturer Fuel Economy	38.61	
Charge Depleting Bag/Phase			
Charge Depleting Bag/Phase #	Test Result/Emission Name	Unrounded Test Result	
36	Actual Distance Driven (miles)	25.842	
37	Carbon-Related Exhaust Emissions	0	
38	Drive Trace Absolute Speed Change Rating	25.56	
39	Drive Trace Energy Economy Rating	-0.99	
40	Drive Trace Inertia Work Ratio Rating	51.205	
41	Integrated DC KW-HRS	10.012	
42	Manufacturer Fuel Economy	38.75	

Certification Summary Information Report

Test Group	RRIVT00.0192	Evaporative/Refueling Family	--																								
Charge Depleting Bag/Phase																											
<table><tr><th>Charge Depleting Bag/Phase #</th><th>Test Result/Emission Name</th><th>Unrounded Test Result</th></tr><tr><td>43</td><td>Actual Distance Driven (miles)</td><td>10.253</td></tr><tr><td>44</td><td>Carbon-Related Exhaust Emissions</td><td>0</td></tr><tr><td>45</td><td>Drive Trace Absolute Speed Change Rating</td><td>-0.04</td></tr><tr><td>46</td><td>Drive Trace Energy Economy Rating</td><td>0.232</td></tr><tr><td>47</td><td>Drive Trace Inertia Work Ratio Rating</td><td>0.089</td></tr><tr><td>48</td><td>Integrated DC KW-HRS</td><td>3.188</td></tr><tr><td>49</td><td>Manufacturer Fuel Economy</td><td>31.1</td></tr></table>				Charge Depleting Bag/Phase #	Test Result/Emission Name	Unrounded Test Result	43	Actual Distance Driven (miles)	10.253	44	Carbon-Related Exhaust Emissions	0	45	Drive Trace Absolute Speed Change Rating	-0.04	46	Drive Trace Energy Economy Rating	0.232	47	Drive Trace Inertia Work Ratio Rating	0.089	48	Integrated DC KW-HRS	3.188	49	Manufacturer Fuel Economy	31.1
Charge Depleting Bag/Phase #	Test Result/Emission Name	Unrounded Test Result																									
43	Actual Distance Driven (miles)	10.253																									
44	Carbon-Related Exhaust Emissions	0																									
45	Drive Trace Absolute Speed Change Rating	-0.04																									
46	Drive Trace Energy Economy Rating	0.232																									
47	Drive Trace Inertia Work Ratio Rating	0.089																									
48	Integrated DC KW-HRS	3.188																									
49	Manufacturer Fuel Economy	31.1																									
Charge Depleting Bag/Phase																											
<table><tr><th>Charge Depleting Bag/Phase #</th><th>Test Result/Emission Name</th><th>Unrounded Test Result</th></tr><tr><td>50</td><td>Actual Distance Driven (miles)</td><td>7.384</td></tr><tr><td>51</td><td>Carbon-Related Exhaust Emissions</td><td>0</td></tr><tr><td>52</td><td>Drive Trace Absolute Speed Change Rating</td><td>-1.11</td></tr><tr><td>53</td><td>Drive Trace Energy Economy Rating</td><td>-0.48</td></tr><tr><td>54</td><td>Drive Trace Inertia Work Ratio Rating</td><td>-2.388</td></tr><tr><td>55</td><td>Integrated DC KW-HRS</td><td>2.165</td></tr><tr><td>56</td><td>Manufacturer Fuel Economy</td><td>29.32</td></tr></table>				Charge Depleting Bag/Phase #	Test Result/Emission Name	Unrounded Test Result	50	Actual Distance Driven (miles)	7.384	51	Carbon-Related Exhaust Emissions	0	52	Drive Trace Absolute Speed Change Rating	-1.11	53	Drive Trace Energy Economy Rating	-0.48	54	Drive Trace Inertia Work Ratio Rating	-2.388	55	Integrated DC KW-HRS	2.165	56	Manufacturer Fuel Economy	29.32
Charge Depleting Bag/Phase #	Test Result/Emission Name	Unrounded Test Result																									
50	Actual Distance Driven (miles)	7.384																									
51	Carbon-Related Exhaust Emissions	0																									
52	Drive Trace Absolute Speed Change Rating	-1.11																									
53	Drive Trace Energy Economy Rating	-0.48																									
54	Drive Trace Inertia Work Ratio Rating	-2.388																									
55	Integrated DC KW-HRS	2.165																									
56	Manufacturer Fuel Economy	29.32																									
Manufacturer Test Comments																											
R1S - Drive Mode: All-Purpose (Default Mode) Performance Dual Motor, Standard Battery Pack, and 22" Tires. UDDS1: 293.25 Wh/mi, UDDS2: 281.62 Wh/mi, UDDS3: 272.41 Wh/mi, UDDS4: 271.75 Wh/mi. UDDS1 Energy: 2165.28 Wh HWY1: 310.96 Wh/mi, HWY2: 306.11 Wh/mi MCT Energy: 107205.57 Wh																											

Certification Summary Information Report

Test Group	RRIVT00.0192	Evaporative/Refueling Family	--					
Emission Data Vehicle Information								
Vehicle ID / Configuration	R1S2390R20 / 0	Manufacturer Vehicle Configuration Number	0					
Original Test Group Name	RRIVT00.0192	Original Evaporative/Refueling Family	--					
Original Test Vehicle Model Year	2024							
Vehicle Model								
Represented Test Vehicle Make	Rivian	Represented Test Vehicle Model	R1S All-Terrain Dual Standard Plus (20in)					
Leak Family Details								
Leak Family Identifier	--	Leak Family Name	--					
Drive Sources and Fuel System Details								
	<table border="1"> <thead> <tr> <th>Drive Source and Fuel#</th><th>Drive Source</th><th>Fuel</th></tr> </thead> <tbody> <tr> <td>1</td><td>Electric Motor</td><td>Electricity</td></tr> </tbody> </table>	Drive Source and Fuel#	Drive Source	Fuel	1	Electric Motor	Electricity	
Drive Source and Fuel#	Drive Source	Fuel						
1	Electric Motor	Electricity						
Hybrid Indicator	No							
Multiple Fuel Storage	--	Multiple Fuel Combustion	--					
Fuel Cell Indicator	No	Rechargeable Energy Storage System Indicator	Yes					
Rechargeable Energy Storage System	Battery(s)	Rechargeable Energy Storage System, if 'Other'	--					
Off-board charge Capable Indicator	Yes							
Odometer Correction -- Initial	1	Odometer Correction Factor	1					
Odometer Correction Sign	+ = System Miles is equal to (Test odometer reading * Correction factor) + Initial system miles							
Odometer Correction Units	Miles							
Engine Code	264X2RW	Rated Horsepower	665					
Displacement (liters)	99.999							
Air Aspiration Method	Naturally Aspirated	Air Aspiration Method, if 'Other'	Electric					
Number of Air Aspiration Devices	--	Air Aspiration Device Configuration	--					
Charge Air Cooler Type	--	Drive Mode While Testing	Part-time 4-Wheel Drive					
Shift Indicator Light Usage	Not equipped	Aged Emission Components	4,000 (mi)					
Curb Weight (lbs)	6925	Equivalent Test Weight (pounds)	7500					
GVWR (lbs)	--	N/V Ratio	999					
Axle Ratio	9.99							
Transmission Type	Automatic	# of Transmission Gears	1					
Transmission Lockup	No	Creep Gear	No					

Certification Summary Information Report

Test Group		RRIVT00.0192			Evaporative/Refueling Family		--	
Dynamometer Coefficients:								
Target Coefficients				Set Coefficients			EPA Calculated Total Road Load Horse Power for City/Highway/Evap Coefficients	
Coefficient Category	A (lbf)	B (lbf/mph)	C (lbf/mph**2)	A (lbf)	B (lbf/mph)	C (lbf/mph**2)		
City/Highway/Evap	60.02	0.3434	0.02458	-1.36	-0.169	0.02799	18.5	
Cold CO	66.02	0.3777	0.02704	99.9	0.9999	0.999	N/A	
US06	60.02	0.3434	0.02458	-1.36	-0.169	0.02799	N/A	
Emission Control Device Comments		Battery Electric Vehicle						
Manufacturer Test Vehicle Comments		FDU Axle Ratio: 11.0:1 RDU Axle Ratio: 13.7:1 FDU N/V: 67.3 RDU N/V: 83.8 Dyno Set Coefficients for Cold CO are placeholders						

Certification Summary Information Report

Test Group	RRIVT00.0192	Evaporative/Refueling Family	--
Test #	RRIV10084988	Test Procedure	77 - Multi-Cycle Test (MCT)
Exhaust Test # for this Evap Test	--	Test Fuel Type	62 - Electricity
Test Date	02/24/2024	Fuel	N/A
Fuel Batch ID	--	Fuel Calibration Number	--
Vehicle Class	N/A	DF Type	EPA Assigned
Verify Test Lab ID	FEV Michigan		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	3172	Odometer Units	M
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--
State of Charge Delta	Yes		
Drive Cycle Speed Tolerance Criteria	Used Part 86 (+/- 2 mph, +/- 1 sec)	Road Speed Fan Usage	Yes
PHEV/EV Charge Depleting Test Information			
Recharge Event Voltage	240	Recharge Event Energy (kiloWatt-hours)	142.5
Charge Depleting Range (Calculated miles)	411.3	Charge Depleting Range (Actual miles)	411.3
Charge Depleting Range Highway (Calculated miles)	375.21	Derived 5-Cycle Coefficient Model Year	--
All Electric Range Unadjusted (miles)	--	Equivalent All Electric Range (miles)	411.3
Number of Charge Depleting Bags/Phases Conducted	8	Transition Bag/Phase Number	--
Charge Depleting Bag/Phase			
Charge Depleting Bag/Phase #	Test Result/Emission Name	Unrounded Test Result	
1	Actual Distance Driven (miles)	7.456	
2	Carbon-Related Exhaust Emissions	0	
3	Drive Trace Absolute Speed Change Rating	0.28	
4	Drive Trace Energy Economy Rating	-0.24	
5	Drive Trace Inertia Work Ratio Rating	0.65	
6	Integrated DC KW-HRS	2.214	
7	Manufacturer Fuel Economy	29.7	
Charge Depleting Bag/Phase			
Charge Depleting Bag/Phase #	Test Result/Emission Name	Unrounded Test Result	
8	Actual Distance Driven (miles)	10.23	
9	Carbon-Related Exhaust Emissions	0	
10	Drive Trace Absolute Speed Change Rating	0.09	
11	Drive Trace Energy Economy Rating	-0.28	
12	Drive Trace Inertia Work Ratio Rating	-0.2	
13	Integrated DC KW-HRS	3.414	
14	Manufacturer Fuel Economy	33.37	

Certification Summary Information Report

Test Group	RRIVT00.0192	Evaporative/Refueling Family	--
Charge Depleting Bag/Phase			
Charge Depleting Bag/Phase #	Test Result/Emission Name	Unrounded Test Result	
15	Actual Distance Driven (miles)	7.421	
16	Carbon-Related Exhaust Emissions	0	
17	Drive Trace Absolute Speed Change Rating	0.09	
18	Drive Trace Energy Economy Rating	0.19	
19	Drive Trace Inertia Work Ratio Rating	0.34	
20	Integrated DC KW-HRS	2.28	
21	Manufacturer Fuel Economy	30.72	
Charge Depleting Bag/Phase			
Charge Depleting Bag/Phase #	Test Result/Emission Name	Unrounded Test Result	
22	Actual Distance Driven (miles)	33.296	
23	Carbon-Related Exhaust Emissions	0	
24	Drive Trace Absolute Speed Change Rating	99.9	
25	Drive Trace Energy Economy Rating	0.38	
26	Drive Trace Inertia Work Ratio Rating	11.16	
27	Integrated DC KW-HRS	13.571	
28	Manufacturer Fuel Economy	40.76	
Charge Depleting Bag/Phase			
Charge Depleting Bag/Phase #	Test Result/Emission Name	Unrounded Test Result	
29	Actual Distance Driven (miles)	7.424	
30	Carbon-Related Exhaust Emissions	0	
31	Drive Trace Absolute Speed Change Rating	0.84	
32	Drive Trace Energy Economy Rating	0.52	
33	Drive Trace Inertia Work Ratio Rating	1.53	
34	Integrated DC KW-HRS	2.369	
35	Manufacturer Fuel Economy	31.91	
Charge Depleting Bag/Phase			
Charge Depleting Bag/Phase #	Test Result/Emission Name	Unrounded Test Result	
36	Actual Distance Driven (miles)	10.235	
37	Carbon-Related Exhaust Emissions	0	
38	Drive Trace Absolute Speed Change Rating	0.12	
39	Drive Trace Energy Economy Rating	-0.2	
40	Drive Trace Inertia Work Ratio Rating	0.24	
41	Integrated DC KW-HRS	3.313	
42	Manufacturer Fuel Economy	32.37	

Certification Summary Information Report

Test Group	RRIVT00.0192	Evaporative/Refueling Family	--																								
Charge Depleting Bag/Phase																											
<table><tr><th>Charge Depleting Bag/Phase #</th><th>Test Result/Emission Name</th><th>Unrounded Test Result</th></tr><tr><td>43</td><td>Actual Distance Driven (miles)</td><td>7.434</td></tr><tr><td>44</td><td>Carbon-Related Exhaust Emissions</td><td>0</td></tr><tr><td>45</td><td>Drive Trace Absolute Speed Change Rating</td><td>-0.16</td></tr><tr><td>46</td><td>Drive Trace Energy Economy Rating</td><td>0</td></tr><tr><td>47</td><td>Drive Trace Inertia Work Ratio Rating</td><td>0.07</td></tr><tr><td>48</td><td>Integrated DC KW-HRS</td><td>2.188</td></tr><tr><td>49</td><td>Manufacturer Fuel Economy</td><td>29.43</td></tr></table>				Charge Depleting Bag/Phase #	Test Result/Emission Name	Unrounded Test Result	43	Actual Distance Driven (miles)	7.434	44	Carbon-Related Exhaust Emissions	0	45	Drive Trace Absolute Speed Change Rating	-0.16	46	Drive Trace Energy Economy Rating	0	47	Drive Trace Inertia Work Ratio Rating	0.07	48	Integrated DC KW-HRS	2.188	49	Manufacturer Fuel Economy	29.43
Charge Depleting Bag/Phase #	Test Result/Emission Name	Unrounded Test Result																									
43	Actual Distance Driven (miles)	7.434																									
44	Carbon-Related Exhaust Emissions	0																									
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46	Drive Trace Energy Economy Rating	0																									
47	Drive Trace Inertia Work Ratio Rating	0.07																									
48	Integrated DC KW-HRS	2.188																									
49	Manufacturer Fuel Economy	29.43																									
Charge Depleting Bag/Phase																											
<table><tr><th>Charge Depleting Bag/Phase #</th><th>Test Result/Emission Name</th><th>Unrounded Test Result</th></tr><tr><td>50</td><td>Actual Distance Driven (miles)</td><td>232.43</td></tr><tr><td>51</td><td>Carbon-Related Exhaust Emissions</td><td>0</td></tr><tr><td>52</td><td>Drive Trace Absolute Speed Change Rating</td><td>9.07</td></tr><tr><td>53</td><td>Drive Trace Energy Economy Rating</td><td>-1.5</td></tr><tr><td>54</td><td>Drive Trace Inertia Work Ratio Rating</td><td>18.15</td></tr><tr><td>55</td><td>Integrated DC KW-HRS</td><td>93.985</td></tr><tr><td>56</td><td>Manufacturer Fuel Economy</td><td>40.44</td></tr></table>				Charge Depleting Bag/Phase #	Test Result/Emission Name	Unrounded Test Result	50	Actual Distance Driven (miles)	232.43	51	Carbon-Related Exhaust Emissions	0	52	Drive Trace Absolute Speed Change Rating	9.07	53	Drive Trace Energy Economy Rating	-1.5	54	Drive Trace Inertia Work Ratio Rating	18.15	55	Integrated DC KW-HRS	93.985	56	Manufacturer Fuel Economy	40.44
Charge Depleting Bag/Phase #	Test Result/Emission Name	Unrounded Test Result																									
50	Actual Distance Driven (miles)	232.43																									
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55	Integrated DC KW-HRS	93.985																									
56	Manufacturer Fuel Economy	40.44																									
Manufacturer Test Comments																											
R1S - Drive Mode: All-Purpose (Default Mode) Performance Dual Motor, Standard Plus Battery Pack, and 20" Tires. UDDS1: 319.09 Wh/mi, UDDS2: 307.23 Wh/mi, UDDS3: 294.27 Wh/mi, UDDS4: 296.97 Wh/mi. UDDS1 Energy: 2368.93 Wh HWY1: 333.68 Wh/mi, HWY2: 323.73 Wh/mi MCT Energy: 123333.34 Wh																											

Certification Summary Information Report

Test Group	RRIVT00.0192	Evaporative/Refueling Family	--					
Emission Data Vehicle Information								
Vehicle ID / Configuration	R1S2390R21 / 0	Manufacturer Vehicle Configuration Number	0					
Original Test Group Name	RRIVT00.0192	Original Evaporative/Refueling Family	--					
Original Test Vehicle Model Year	2024							
Vehicle Model								
Represented Test Vehicle Make	Rivian	Represented Test Vehicle Model	R1S Performance Dual Standard Plus (21in)					
Leak Family Details								
Leak Family Identifier	--	Leak Family Name	--					
Drive Sources and Fuel System Details								
	<table border="1"> <thead> <tr> <th>Drive Source and Fuel#</th><th>Drive Source</th><th>Fuel</th></tr> </thead> <tbody> <tr> <td>1</td><td>Electric Motor</td><td>Electricity</td></tr> </tbody> </table>	Drive Source and Fuel#	Drive Source	Fuel	1	Electric Motor	Electricity	
Drive Source and Fuel#	Drive Source	Fuel						
1	Electric Motor	Electricity						
Hybrid Indicator	No							
Multiple Fuel Storage	--	Multiple Fuel Combustion	--					
Fuel Cell Indicator	No	Rechargeable Energy Storage System Indicator	Yes					
Rechargeable Energy Storage System	Battery(s)	Rechargeable Energy Storage System, if 'Other'	--					
Off-board charge Capable Indicator	Yes							
Odometer Correction -- Initial	1	Odometer Correction Factor	1					
Odometer Correction Sign	+ = System Miles is equal to (Test odometer reading * Correction factor) + Initial system miles							
Odometer Correction Units	Miles							
Engine Code	264X2RW	Rated Horsepower	665					
Displacement (liters)	99.999							
Air Aspiration Method	Naturally Aspirated	Air Aspiration Method, if 'Other'	Electric					
Number of Air Aspiration Devices	--	Air Aspiration Device Configuration	--					
Charge Air Cooler Type	--	Drive Mode While Testing	Part-time 4-Wheel Drive					
Shift Indicator Light Usage	Not equipped	Aged Emission Components	4,000 (mi)					
Curb Weight (lbs)	6722	Equivalent Test Weight (pounds)	7000					
GVWR (lbs)	--	N/V Ratio	999					
Axle Ratio	9.99							
Transmission Type	Automatic	# of Transmission Gears	1					
Transmission Lockup	No	Creep Gear	No					

Certification Summary Information Report

Test Group		RRIVT00.0192			Evaporative/Refueling Family		--	
Dynamometer Coefficients:								
Target Coefficients				Set Coefficients			EPA Calculated Total Road Load Horse Power for City/Highway/Evap Coefficients	
Coefficient Category	A (lbf)	B (lbf/mph)	C (lbf/mph**2)	A (lbf)	B (lbf/mph)	C (lbf/mph**2)		
City/Highway/Evap	45.22	0.6456	0.01633	1.9	0.1265	0.02067	15.8	
Cold CO	49.74	0.7102	0.01796	99.9	0.9999	0.999	N/A	
US06	45.22	0.6456	0.01633	1.9	0.1265	0.02067	N/A	
Emission Control Device Comments		Battery Electric Vehicle						
Manufacturer Test Vehicle Comments		FDU Axle Ratio: 11.0:1 RDU Axle Ratio: 13.7:1 FDU N/V: 140.0 RDU N/V: 112.4 Dyno Set Coefficients for Cold CO are placeholders						

Certification Summary Information Report

Test Group	RRIVT00.0192	Evaporative/Refueling Family	--																								
Test #	RRIV10085157	Test Procedure	77 - Multi-Cycle Test (MCT)																								
Exhaust Test # for this Evap Test	--	Test Fuel Type	62 - Electricity																								
Test Date	03/06/2024	Fuel	N/A																								
Fuel Batch ID	--	Fuel Calibration Number	--																								
Vehicle Class	N/A	DF Type	EPA Assigned																								
Verify Test Lab ID	FEV Michigan																										
E10 Evaporative Test Measurement Method	--																										
Test Start Odometer Reading	3580	Odometer Units	M																								
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--																								
State of Charge Delta	Yes																										
Drive Cycle Speed Tolerance Criteria	Used Part 86 (+/- 2 mph, +/- 1 sec)	Road Speed Fan Usage	Yes																								
PHEV/EV Charge Depleting Test Information																											
Recharge Event Voltage	240	Recharge Event Energy (kiloWatt-hours)	143.5																								
Charge Depleting Range (Calculated miles)	486.06	Charge Depleting Range (Actual miles)	486.06																								
Charge Depleting Range Highway (Calculated miles)	447.36	Derived 5-Cycle Coefficient Model Year	--																								
All Electric Range Unadjusted (miles)	--	Equivalent All Electric Range (miles)	486.06																								
Number of Charge Depleting Bags/Phases Conducted	8	Transition Bag/Phase Number	--																								
Charge Depleting Bag/Phase																											
<table border="1"> <thead> <tr> <th>Charge Depleting Bag/Phase #</th><th>Test Result/Emission Name</th><th>Unrounded Test Result</th></tr> </thead> <tbody> <tr> <td>1</td><td>Actual Distance Driven (miles)</td><td>10.254</td></tr> <tr> <td>2</td><td>Carbon-Related Exhaust Emissions</td><td>0</td></tr> <tr> <td>3</td><td>Drive Trace Absolute Speed Change Rating</td><td>-0.17</td></tr> <tr> <td>4</td><td>Drive Trace Energy Economy Rating</td><td>-0.48</td></tr> <tr> <td>5</td><td>Drive Trace Inertia Work Ratio Rating</td><td>-0.24</td></tr> <tr> <td>6</td><td>Integrated DC KW-HRS</td><td>2.874</td></tr> <tr> <td>7</td><td>Manufacturer Fuel Economy</td><td>28.02</td></tr> </tbody> </table>				Charge Depleting Bag/Phase #	Test Result/Emission Name	Unrounded Test Result	1	Actual Distance Driven (miles)	10.254	2	Carbon-Related Exhaust Emissions	0	3	Drive Trace Absolute Speed Change Rating	-0.17	4	Drive Trace Energy Economy Rating	-0.48	5	Drive Trace Inertia Work Ratio Rating	-0.24	6	Integrated DC KW-HRS	2.874	7	Manufacturer Fuel Economy	28.02
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Charge Depleting Bag/Phase																											
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Charge Depleting Bag/Phase #	Test Result/Emission Name	Unrounded Test Result																									
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14	Manufacturer Fuel Economy	25.78																									

Certification Summary Information Report

Test Group	RRIVT00.0192	Evaporative/Refueling Family	--
Charge Depleting Bag/Phase			
Charge Depleting Bag/Phase #	Test Result/Emission Name	Unrounded Test Result	
15	Actual Distance Driven (miles)	7.451	
16	Carbon-Related Exhaust Emissions	0	
17	Drive Trace Absolute Speed Change Rating	0.79	
18	Drive Trace Energy Economy Rating	0.38	
19	Drive Trace Inertia Work Ratio Rating	1.55	
20	Integrated DC KW-HRS	1.883	
21	Manufacturer Fuel Economy	25.28	
Charge Depleting Bag/Phase			
Charge Depleting Bag/Phase #	Test Result/Emission Name	Unrounded Test Result	
22	Actual Distance Driven (miles)	44.178	
23	Carbon-Related Exhaust Emissions	0	
24	Drive Trace Absolute Speed Change Rating	99.99	
25	Drive Trace Energy Economy Rating	0.05	
26	Drive Trace Inertia Work Ratio Rating	11.49	
27	Integrated DC KW-HRS	15.066	
28	Manufacturer Fuel Economy	34.1	
Charge Depleting Bag/Phase			
Charge Depleting Bag/Phase #	Test Result/Emission Name	Unrounded Test Result	
29	Actual Distance Driven (miles)	7.446	
30	Carbon-Related Exhaust Emissions	0	
31	Drive Trace Absolute Speed Change Rating	-0.52	
32	Drive Trace Energy Economy Rating	-0.93	
33	Drive Trace Inertia Work Ratio Rating	-0.5	
34	Integrated DC KW-HRS	2.006	
35	Manufacturer Fuel Economy	26.94	
Charge Depleting Bag/Phase			
Charge Depleting Bag/Phase #	Test Result/Emission Name	Unrounded Test Result	
36	Actual Distance Driven (miles)	10.253	
37	Carbon-Related Exhaust Emissions	0	
38	Drive Trace Absolute Speed Change Rating	1.38	
39	Drive Trace Energy Economy Rating	0.31	
40	Drive Trace Inertia Work Ratio Rating	1.76	
41	Integrated DC KW-HRS	2.786	
42	Manufacturer Fuel Economy	27.17	

Certification Summary Information Report

Test Group	RRIVT00.0192	Evaporative/Refueling Family	--																								
Charge Depleting Bag/Phase																											
<table><tr><th>Charge Depleting Bag/Phase #</th><th>Test Result/Emission Name</th><th>Unrounded Test Result</th></tr><tr><td>43</td><td>Actual Distance Driven (miles)</td><td>280.124</td></tr><tr><td>44</td><td>Carbon-Related Exhaust Emissions</td><td>0</td></tr><tr><td>45</td><td>Drive Trace Absolute Speed Change Rating</td><td>39.83</td></tr><tr><td>46</td><td>Drive Trace Energy Economy Rating</td><td>-1.47</td></tr><tr><td>47</td><td>Drive Trace Inertia Work Ratio Rating</td><td>51.46</td></tr><tr><td>48</td><td>Integrated DC KW-HRS</td><td>95.056</td></tr><tr><td>49</td><td>Manufacturer Fuel Economy</td><td>33.93</td></tr></table>				Charge Depleting Bag/Phase #	Test Result/Emission Name	Unrounded Test Result	43	Actual Distance Driven (miles)	280.124	44	Carbon-Related Exhaust Emissions	0	45	Drive Trace Absolute Speed Change Rating	39.83	46	Drive Trace Energy Economy Rating	-1.47	47	Drive Trace Inertia Work Ratio Rating	51.46	48	Integrated DC KW-HRS	95.056	49	Manufacturer Fuel Economy	33.93
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Charge Depleting Bag/Phase																											
<table><tr><th>Charge Depleting Bag/Phase #</th><th>Test Result/Emission Name</th><th>Unrounded Test Result</th></tr><tr><td>50</td><td>Actual Distance Driven (miles)</td><td>7.429</td></tr><tr><td>51</td><td>Carbon-Related Exhaust Emissions</td><td>0</td></tr><tr><td>52</td><td>Drive Trace Absolute Speed Change Rating</td><td>1.4</td></tr><tr><td>53</td><td>Drive Trace Energy Economy Rating</td><td>0.72</td></tr><tr><td>54</td><td>Drive Trace Inertia Work Ratio Rating</td><td>2.04</td></tr><tr><td>55</td><td>Integrated DC KW-HRS</td><td>1.862</td></tr><tr><td>56</td><td>Manufacturer Fuel Economy</td><td>25.07</td></tr></table>				Charge Depleting Bag/Phase #	Test Result/Emission Name	Unrounded Test Result	50	Actual Distance Driven (miles)	7.429	51	Carbon-Related Exhaust Emissions	0	52	Drive Trace Absolute Speed Change Rating	1.4	53	Drive Trace Energy Economy Rating	0.72	54	Drive Trace Inertia Work Ratio Rating	2.04	55	Integrated DC KW-HRS	1.862	56	Manufacturer Fuel Economy	25.07
Charge Depleting Bag/Phase #	Test Result/Emission Name	Unrounded Test Result																									
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Manufacturer Test Comments																											
R1S - Drive Mode: All-Purpose (Default Mode) Performance Dual Motor, Standard Plus Battery Pack, and 21" Tires. UDDS1: 269.41 Wh/mi, UDDS2: 257.75 Wh/mi, UDDS3: 250.68 Wh/mi, UDDS4: 252.79 Wh/mi. UDDS1 Energy: 2006.02 Wh HWY1: 280.24 Wh/mi, HWY2: 271.69 Wh/mi MCT Energy: 123455 Wh																											

Certification Summary Information Report

Test Group	RRIVT00.0192	Evaporative/Refueling Family	--					
Emission Data Vehicle Information								
Vehicle ID / Configuration	R1S2390R22 / 0	Manufacturer Vehicle Configuration Number	0					
Original Test Group Name	RRIVT00.0192	Original Evaporative/Refueling Family	--					
Original Test Vehicle Model Year	2024							
Vehicle Model								
Represented Test Vehicle Make	Rivian	Represented Test Vehicle Model	R1S Performance Dual Standard Plus (22in)					
Leak Family Details								
Leak Family Identifier	--	Leak Family Name	--					
Drive Sources and Fuel System Details								
	<table border="1"> <thead> <tr> <th>Drive Source and Fuel#</th><th>Drive Source</th><th>Fuel</th></tr> </thead> <tbody> <tr> <td>1</td><td>Electric Motor</td><td>Electricity</td></tr> </tbody> </table>	Drive Source and Fuel#	Drive Source	Fuel	1	Electric Motor	Electricity	
Drive Source and Fuel#	Drive Source	Fuel						
1	Electric Motor	Electricity						
Hybrid Indicator	No							
Multiple Fuel Storage	--	Multiple Fuel Combustion	--					
Fuel Cell Indicator	No	Rechargeable Energy Storage System Indicator	Yes					
Rechargeable Energy Storage System	Battery(s)	Rechargeable Energy Storage System, if 'Other'	--					
Off-board charge Capable Indicator	Yes							
Odometer Correction -- Initial	1	Odometer Correction Factor	1					
Odometer Correction Sign	+ = System Miles is equal to (Test odometer reading * Correction factor) + Initial system miles							
Odometer Correction Units	Miles							
Engine Code	264X2RW	Rated Horsepower	665					
Displacement (liters)	99.999							
Air Aspiration Method	Naturally Aspirated	Air Aspiration Method, if 'Other'	Electric					
Number of Air Aspiration Devices	--	Air Aspiration Device Configuration	--					
Charge Air Cooler Type	--	Drive Mode While Testing	Part-time 4-Wheel Drive					
Shift Indicator Light Usage	Not equipped	Aged Emission Components	4,000 (mi)					
Curb Weight (lbs)	6735	Equivalent Test Weight (pounds)	7000					
GVWR (lbs)	--	N/V Ratio	999					
Axle Ratio	9.99							
Transmission Type	Automatic	# of Transmission Gears	1					
Transmission Lockup	No	Creep Gear	No					

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Certification Summary Information Report

Test Group	RRIVT00.0192	Evaporative/Refueling Family	--
Test #	RRIV10085192	Test Procedure	77 - Multi-Cycle Test (MCT)
Exhaust Test # for this Evap Test	--	Test Fuel Type	62 - Electricity
Test Date	03/13/2024	Fuel	N/A
Fuel Batch ID	--	Fuel Calibration Number	--
Vehicle Class	N/A	DF Type	EPA Assigned
Verify Test Lab ID	FEV Michigan		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4078	Odometer Units	M
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--
State of Charge Delta	Yes		
Drive Cycle Speed Tolerance Criteria	Used Part 86 (+/- 2 mph, +/- 1 sec)	Road Speed Fan Usage	Yes
PHEV/EV Charge Depleting Test Information			
Recharge Event Voltage	240	Recharge Event Energy (kiloWatt-hours)	143.6
Charge Depleting Range (Calculated miles)	461.19	Charge Depleting Range (Actual miles)	461.19
Charge Depleting Range Highway (Calculated miles)	414.41	Derived 5-Cycle Coefficient Model Year	--
All Electric Range Unadjusted (miles)	--	Equivalent All Electric Range (miles)	461.19
Number of Charge Depleting Bags/Phases Conducted	8	Transition Bag/Phase Number	--
Charge Depleting Bag/Phase			
Charge Depleting Bag/Phase #	Test Result/Emission Name	Unrounded Test Result	
1	Actual Distance Driven (miles)	7.432	
2	Carbon-Related Exhaust Emissions	0	
3	Drive Trace Absolute Speed Change Rating	0.54	
4	Drive Trace Energy Economy Rating	0.42	
5	Drive Trace Inertia Work Ratio Rating	1.55	
6	Integrated DC KW-HRS	1.973	
7	Manufacturer Fuel Economy	26.54	
Charge Depleting Bag/Phase			
Charge Depleting Bag/Phase #	Test Result/Emission Name	Unrounded Test Result	
8	Actual Distance Driven (miles)	7.415	
9	Carbon-Related Exhaust Emissions	0	
10	Drive Trace Absolute Speed Change Rating	0.22	
11	Drive Trace Energy Economy Rating	-0.03	
12	Drive Trace Inertia Work Ratio Rating	0.77	
13	Integrated DC KW-HRS	2.035	
14	Manufacturer Fuel Economy	27.44	

Certification Summary Information Report

Test Group	RRIVT00.0192	Evaporative/Refueling Family	--
Charge Depleting Bag/Phase			
Charge Depleting Bag/Phase #	Test Result/Emission Name	Unrounded Test Result	
15	Actual Distance Driven (miles)	7.448	
16	Carbon-Related Exhaust Emissions	0	
17	Drive Trace Absolute Speed Change Rating	0.74	
18	Drive Trace Energy Economy Rating	0.15	
19	Drive Trace Inertia Work Ratio Rating	0.86	
20	Integrated DC KW-HRS	1.972	
21	Manufacturer Fuel Economy	26.48	
Charge Depleting Bag/Phase			
Charge Depleting Bag/Phase #	Test Result/Emission Name	Unrounded Test Result	
22	Actual Distance Driven (miles)	10.241	
23	Carbon-Related Exhaust Emissions	0	
24	Drive Trace Absolute Speed Change Rating	-0.86	
25	Drive Trace Energy Economy Rating	-0.08	
26	Drive Trace Inertia Work Ratio Rating	-1	
27	Integrated DC KW-HRS	3.008	
28	Manufacturer Fuel Economy	29.37	
Charge Depleting Bag/Phase			
Charge Depleting Bag/Phase #	Test Result/Emission Name	Unrounded Test Result	
29	Actual Distance Driven (miles)	35.076	
30	Carbon-Related Exhaust Emissions	0	
31	Drive Trace Absolute Speed Change Rating	99.99	
32	Drive Trace Energy Economy Rating	-0.21	
33	Drive Trace Inertia Work Ratio Rating	67.25	
34	Integrated DC KW-HRS	13.257	
35	Manufacturer Fuel Economy	37.79	
Charge Depleting Bag/Phase			
Charge Depleting Bag/Phase #	Test Result/Emission Name	Unrounded Test Result	
36	Actual Distance Driven (miles)	259.373	
37	Carbon-Related Exhaust Emissions	0	
38	Drive Trace Absolute Speed Change Rating	35.93	
39	Drive Trace Energy Economy Rating	-2.07	
40	Drive Trace Inertia Work Ratio Rating	46.08	
41	Integrated DC KW-HRS	96.35	
42	Manufacturer Fuel Economy	37.15	

Certification Summary Information Report

Test Group	RRIVT00.0192	Evaporative/Refueling Family	--																							
Charge Depleting Bag/Phase																										
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	<table><tr><th>Charge Depleting Bag/Phase #</th><th>Test Result/Emission Name</th><th>Unrounded Test Result</th></tr><tr><td>50</td><td>Actual Distance Driven (miles)</td><td>7.435</td></tr><tr><td>51</td><td>Carbon-Related Exhaust Emissions</td><td>0</td></tr><tr><td>52</td><td>Drive Trace Absolute Speed Change Rating</td><td>0.21</td></tr><tr><td>53</td><td>Drive Trace Energy Economy Rating</td><td>0.03</td></tr><tr><td>54</td><td>Drive Trace Inertia Work Ratio Rating</td><td>0.19</td></tr><tr><td>55</td><td>Integrated DC KW-HRS</td><td>2.115</td></tr><tr><td>56</td><td>Manufacturer Fuel Economy</td><td>28.44</td></tr></table>	Charge Depleting Bag/Phase #	Test Result/Emission Name	Unrounded Test Result	50	Actual Distance Driven (miles)	7.435	51	Carbon-Related Exhaust Emissions	0	52	Drive Trace Absolute Speed Change Rating	0.21	53	Drive Trace Energy Economy Rating	0.03	54	Drive Trace Inertia Work Ratio Rating	0.19	55	Integrated DC KW-HRS	2.115	56	Manufacturer Fuel Economy	28.44	
Charge Depleting Bag/Phase #	Test Result/Emission Name	Unrounded Test Result																								
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55	Integrated DC KW-HRS	2.115																								
56	Manufacturer Fuel Economy	28.44																								
Manufacturer Test Comments																										
R1S - Drive Mode: All-Purpose (Default Mode) Performance Dual Motor, Standard Plus Battery Pack, and 22" Tires. UDDS1: 284.39 Wh/mi, UDDS2: 274.41 Wh/mi, UDDS3: 264.77 Wh/mi, UDDS4: 265.44 Wh/mi. UDDS1 Energy: 2114.51 Wh HWY1: 303.90 Wh/mi, HWY2: 293.68 Wh/mi MCT Energy: 123821 Wh																										

Certification Summary Information Report

Test Group	RRIVT00.0192	Evaporative/Refueling Family	--						
Emission Data Vehicle Information									
Vehicle ID / Configuration	R1T033XR22 / 0	Manufacturer Vehicle Configuration Number	0						
Original Test Group Name	PRIVT00.0192	Original Evaporative/Refueling Family	--						
Original Test Vehicle Model Year	2023								
Vehicle Model									
Represented Test Vehicle Make	Rivian	Represented Test Vehicle Model	R1T 22in Performance Dual Large						
Leak Family Details									
Leak Family Identifier	--	Leak Family Name	--						
Drive Sources and Fuel System Details									
	<table border="1"> <thead> <tr> <th>Drive Source and Fuel#</th><th>Drive Source</th><th>Fuel</th></tr> </thead> <tbody> <tr> <td>1</td><td>Electric Motor</td><td>Electricity</td></tr> </tbody> </table>	Drive Source and Fuel#	Drive Source	Fuel	1	Electric Motor	Electricity		
Drive Source and Fuel#	Drive Source	Fuel							
1	Electric Motor	Electricity							
Hybrid Indicator	No								
Multiple Fuel Storage	--	Multiple Fuel Combustion	--						
Fuel Cell Indicator	No	Rechargeable Energy Storage System Indicator	Yes						
Rechargeable Energy Storage System	Battery(s)	Rechargeable Energy Storage System, if 'Other'	--						
Off-board charge Capable Indicator	Yes								
Odometer Correction -- Initial	1	Odometer Correction Factor	1						
Odometer Correction Sign	+ = System Miles is equal to (Test odometer reading * Correction factor) + Initial system miles								
Odometer Correction Units	Miles								
Engine Code	264X2RW	Rated Horsepower	665						
Displacement (liters)	99.999								
Air Aspiration Method	Naturally Aspirated	Air Aspiration Method, if 'Other'	Electric						
Number of Air Aspiration Devices	--	Air Aspiration Device Configuration	--						
Charge Air Cooler Type	--	Drive Mode While Testing	Part-time 4-Wheel Drive						
Shift Indicator Light Usage	Not equipped	Aged Emission Components	4,000 (mi)						
Curb Weight (lbs)	6598	Equivalent Test Weight (pounds)	7000						
GVWR (lbs)	--	N/V Ratio	999						
Axle Ratio	9.99								
Transmission Type	Automatic	# of Transmission Gears	1						
Transmission Lockup	No	Creep Gear	No						

Certification Summary Information Report

Test Group		RRIVT00.0192			Evaporative/Refueling Family		--
Dynamometer Coefficients:							
Target Coefficients				Set Coefficients			EPA Calculated Total Road Load Horse Power for City/Highway/Evap Coefficients
Coefficient Category	A (lbf)	B (lbf/mph)	C (lbf/mph**2)	A (lbf)	B (lbf/mph)	C (lbf/mph**2)	
City/Highway/Evap	55.67	0.3376	0.02298	-8.2	0.125	0.02513	17.3
Cold CO	61.24	0.3714	0.02528	-11.05	0.0039	0.02685	N/A
US06	55.67	0.3376	0.02298	-8.2	0.125	0.02513	N/A
Emission Control Device Comments		Battery Electric Vehicle					
Manufacturer Test Vehicle Comments		FDU Axle Ratio: 11.0:1 RDU Axle Ratio: 13.7:1 FDU N/V: 70.0 RDU N/V: 87.2					

Certification Summary Information Report

Test Group	RRIVT00.0192	Evaporative/Refueling Family	--
Test #	PRIV10080843	Test Procedure	2 - CVS 75 and later (w/o can. load)
Exhaust Test # for this Evap Test	--	Test Fuel Type	62 - Electricity
Test Date	05/16/2023	Fuel	Electricity
Fuel Batch ID	--	Fuel Calibration Number	--
Vehicle Class	MDPV (Federal Tier 2, GVWR 8501-10000)	DF Type	EPA Assigned
Verify Test Lab ID	FEV Michigan		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	3631	Odometer Units	M
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--
State of Charge Delta	Yes		
Drive Cycle Speed Tolerance Criteria	Used Part 86 (+/- 2 mph, +/- 1 sec)	Road Speed Fan Usage	Yes

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (kilowatt-hour per 100 miles)
METHANE (CH4 - Methane)	0	--
CO (Carbon Monoxide)	0	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	3.06	--
DT-EER (Drive Trace Energy Economy Rating)	2.38	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	4.13	--
MFR FE (Manufacturer Fuel Economy)	26.93	125.1392499
NOX (Nitrogen Oxide)	0	--
N2O (Nitrous Oxide)	0	--
HC-NM (Non-methane Hydrocarbon)	0	--
NMOG (Non-methane organic gases)	0	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	0	0
Optional Carbon-Related Exhaust Emissions	0	0

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	0	--

Manufacturer Test Comments

R1T - Drive Mode: All-Purpose (Default Mode) Dual Motor, Large Battery Pack, and 22" Tires. Cycle 1: 302.26 Wh/mi, Cycle 2: 253.33 Wh/mi, Cycle 3: 283.83 Wh/mi, Cycle 4: 241.17 Wh/mi.

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Certification Summary Information Report

Test Group	RRIVT00.0192	Evaporative/Refueling Family	--
Test #	PRIV10080844	Test Procedure	3 - HWFE
Exhaust Test # for this Evap Test	--	Test Fuel Type	62 - Electricity
Test Date	05/16/2023	Fuel	N/A
Fuel Batch ID	--	Fuel Calibration Number	--
Vehicle Class	N/A	DF Type	EPA Assigned
Verify Test Lab ID	FEV Michigan		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	3631	Odometer Units	M
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--
State of Charge Delta	Yes		
Drive Cycle Speed Tolerance Criteria	Used Part 86 (+/- 2 mph, +/- 1 sec)	Road Speed Fan Usage	Yes
Test Results			
Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (kilowatt-hour per 100 miles)	
METHANE (CH4 - Methane)	0	--	
CO (Carbon Monoxide)	0	--	
DT-ASCR (Drive Trace Absolute Speed Change Rating)	7.82	--	
DT-EER (Drive Trace Energy Economy Rating)	1.61	--	
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	10.06	--	
MFR FE (Manufacturer Fuel Economy)	29.6	113.8513514	
NOX (Nitrogen Oxide)	0	--	
N2O (Nitrous Oxide)	0	--	
HC-NM (Non-methane Hydrocarbon)	0	--	
NMOG (Non-methane organic gases)	0	--	
Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE	
Carbon-Related Exhaust Emissions	0	0	
Optional Carbon-Related Exhaust Emissions	0	0	
Test Result Name	Unrounded Test Result	Verify Calculated CO2	
Carbon dioxide	0	--	
Manufacturer Test Comments	R1T - Drive Mode: All-Purpose (Default Mode) Dual Motor, Large Battery Pack, and 22" Tires. Cycle 1: 295.98 Wh/mi		

Certification Summary Information Report

Test Group	RRIVT00.0192	Evaporative/Refueling Family	--
Test #	PRIV10080845	Test Procedure	90 - US06
Exhaust Test # for this Evap Test	--	Test Fuel Type	62 - Electricity
Test Date	05/16/2023	Fuel	N/A
Fuel Batch ID	--	Fuel Calibration Number	--
Vehicle Class	N/A	DF Type	EPA Assigned
Verify Test Lab ID	FEV Michigan		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	3656	Odometer Units	M
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--
State of Charge Delta	Yes		
Drive Cycle Speed Tolerance Criteria	Used Part 86 (+/- 2 mph, +/- 1 sec)	Road Speed Fan Usage	Yes

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (kilowatt-hour per 100 miles)
METHANE (CH4 - Methane)	0	--
CO (Carbon Monoxide)	0	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-2.78	--
DT-EER (Drive Trace Energy Economy Rating)	-1.79	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-5.5	--
MFR FE (Manufacturer Fuel Economy)	39.2	85.9693878
NOX (Nitrogen Oxide)	0	--
N2O (Nitrous Oxide)	0	--
HC-NM (Non-methane Hydrocarbon)	0	--
NMOG (Non-methane organic gases)	0	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	0	--
Optional Carbon-Related Exhaust Emissions	0	--

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	0	--

Manufacturer Test Comments

R1T - Drive Mode: All-Purpose (Default Mode) Dual Motor, Large Battery Pack, and 22" Tires. Cycle 1 (City1): 366.71 Wh/mi, Cycle 2 (HWY): 393.08 Wh/mi, Cycle 3 (City2): 444.21 Wh/mi

Certification Summary Information Report

Test Group	RRIVT00.0192	Evaporative/Refueling Family	--
Test #	PRIV10080846	Test Procedure	95 - SC03
Exhaust Test # for this Evap Test	--	Test Fuel Type	62 - Electricity
Test Date	05/18/2023	Fuel	N/A
Fuel Batch ID	--	Fuel Calibration Number	--
Vehicle Class	N/A	DF Type	EPA Assigned
Verify Test Lab ID	FEV Michigan		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	3694	Odometer Units	M
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--
State of Charge Delta	Yes		
Drive Cycle Speed Tolerance Criteria	Used Part 86 (+/- 2 mph, +/- 1 sec)	Road Speed Fan Usage	Yes

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (kilowatt-hour per 100 miles)
METHANE (CH4 - Methane)	0	--
CO (Carbon Monoxide)	0	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-1.72	--
DT-EER (Drive Trace Energy Economy Rating)	0.16	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-2.29	--
MFR FE (Manufacturer Fuel Economy)	31.18	108.0821039
NOX (Nitrogen Oxide)	0	--
N2O (Nitrous Oxide)	0	--
HC-NM (Non-methane Hydrocarbon)	0	--
NMOG (Non-methane organic gases)	0	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	0	--
Optional Carbon-Related Exhaust Emissions	0	--

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	0	--

Manufacturer Test Comments

R1T - Drive Mode: All-Purpose (Default Mode) Dual Motor, Large Battery Pack, and 22" Tires. Cycle 1: 311.76 Wh/mi

Certification Summary Information Report

Test Group	RRIVT00.0192	Evaporative/Refueling Family	--																		
Test #	PRIV10080841	Test Procedure	81 - Charge Depleting UDDS																		
Exhaust Test # for this Evap Test	--	Test Fuel Type	62 - Electricity																		
Test Date	05/10/2023	Fuel	Electricity																		
Fuel Batch ID	--	Fuel Calibration Number	--																		
Vehicle Class	MDPV (Federal Tier 2, GVWR 8501-10000)	DF Type	EPA Assigned																		
Verify Test Lab ID	FEV Michigan																				
E10 Evaporative Test Measurement Method	--																				
Test Start Odometer Reading	3184	Odometer Units	M																		
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--																		
State of Charge Delta	Yes																				
Drive Cycle Speed Tolerance Criteria	Used Part 86 (+/- 2 mph, +/- 1 sec)	Road Speed Fan Usage	Yes																		
PHEV/EV Charge Depleting Test Information																					
Recharge Event Voltage	240	Recharge Event Energy (kiloWatt-hours)	151.21																		
Charge Depleting Range (Calculated miles)	498.89	Charge Depleting Range (Actual miles)	498.89																		
Charge Depleting Range Highway (Calculated miles)	--	Derived 5-Cycle Coefficient Model Year	--																		
All Electric Range Unadjusted (miles)	--	Equivalent All Electric Range (miles)	498.89																		
Number of Charge Depleting Bags/Phases Conducted	4	Transition Bag/Phase Number	--																		
Charge Depleting Bag/Phase																					
<table><tr><th>Charge Depleting Bag/Phase #</th><th>Test Result/Emission Name</th><th>Unrounded Test Result</th></tr><tr><td>1</td><td>Carbon-Related Exhaust Emissions</td><td>0</td></tr><tr><td>2</td><td>Drive Trace Absolute Speed Change Rating</td><td>0.79</td></tr><tr><td>3</td><td>Drive Trace Energy Economy Rating</td><td>0.42</td></tr><tr><td>4</td><td>Drive Trace Inertia Work Ratio Rating</td><td>1.01</td></tr><tr><td>5</td><td>Manufacturer Fuel Economy</td><td>27.27</td></tr></table>				Charge Depleting Bag/Phase #	Test Result/Emission Name	Unrounded Test Result	1	Carbon-Related Exhaust Emissions	0	2	Drive Trace Absolute Speed Change Rating	0.79	3	Drive Trace Energy Economy Rating	0.42	4	Drive Trace Inertia Work Ratio Rating	1.01	5	Manufacturer Fuel Economy	27.27
Charge Depleting Bag/Phase #	Test Result/Emission Name	Unrounded Test Result																			
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4	Drive Trace Inertia Work Ratio Rating	1.01																			
5	Manufacturer Fuel Economy	27.27																			
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Charge Depleting Bag/Phase #	Test Result/Emission Name	Unrounded Test Result																			
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8	Drive Trace Energy Economy Rating	0.19																			
9	Drive Trace Inertia Work Ratio Rating	1.08																			
10	Manufacturer Fuel Economy	25.84																			
Charge Depleting Bag/Phase																					

Certification Summary Information Report

Test Group		RRIVT00.0192		Evaporative/Refueling Family		--	

Certification Summary Information Report

Test Group	RRIVT00.0192	Evaporative/Refueling Family	--																		
Test #	PRIV10080842	Test Procedure	84 - Charge Depleting Highway																		
Exhaust Test # for this Evap Test	--	Test Fuel Type	62 - Electricity																		
Test Date	05/10/2023	Fuel	Electricity																		
Fuel Batch ID	--	Fuel Calibration Number	--																		
Vehicle Class	MDPV (Federal Tier 2, GVWR 8501-10000)	DF Type	EPA Assigned																		
Verify Test Lab ID	FEV Michigan																				
E10 Evaporative Test Measurement Method	--																				
Test Start Odometer Reading	3184	Odometer Units	M																		
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--																		
State of Charge Delta	Yes																				
Drive Cycle Speed Tolerance Criteria	Used Part 86 (+/- 2 mph, +/- 1 sec)	Road Speed Fan Usage	Yes																		
PHEV/EV Charge Depleting Test Information																					
Recharge Event Voltage	240	Recharge Event Energy (kiloWatt-hours)	151.21																		
Charge Depleting Range (Calculated miles)	441.18	Charge Depleting Range (Actual miles)	441.18																		
Charge Depleting Range Highway (Calculated miles)	--	Derived 5-Cycle Coefficient Model Year	--																		
All Electric Range Unadjusted (miles)	--	Equivalent All Electric Range (miles)	441.18																		
Number of Charge Depleting Bags/Phases Conducted	2	Transition Bag/Phase Number	--																		
Charge Depleting Bag/Phase																					
<table border="1"> <thead> <tr> <th>Charge Depleting Bag/Phase #</th><th>Test Result/Emission Name</th><th>Unrounded Test Result</th></tr> </thead> <tbody> <tr> <td>1</td><td>Carbon-Related Exhaust Emissions</td><td>0</td></tr> <tr> <td>2</td><td>Drive Trace Absolute Speed Change Rating</td><td>-0.36</td></tr> <tr> <td>3</td><td>Drive Trace Energy Economy Rating</td><td>-0.02</td></tr> <tr> <td>4</td><td>Drive Trace Inertia Work Ratio Rating</td><td>-0.33</td></tr> <tr> <td>5</td><td>Manufacturer Fuel Economy</td><td>29.28</td></tr> </tbody> </table>				Charge Depleting Bag/Phase #	Test Result/Emission Name	Unrounded Test Result	1	Carbon-Related Exhaust Emissions	0	2	Drive Trace Absolute Speed Change Rating	-0.36	3	Drive Trace Energy Economy Rating	-0.02	4	Drive Trace Inertia Work Ratio Rating	-0.33	5	Manufacturer Fuel Economy	29.28
Charge Depleting Bag/Phase #	Test Result/Emission Name	Unrounded Test Result																			
1	Carbon-Related Exhaust Emissions	0																			
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4	Drive Trace Inertia Work Ratio Rating	-0.33																			
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Charge Depleting Bag/Phase #	Test Result/Emission Name	Unrounded Test Result																			
6	Carbon-Related Exhaust Emissions	0																			
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8	Drive Trace Energy Economy Rating	0.28																			
9	Drive Trace Inertia Work Ratio Rating	2.42																			
10	Manufacturer Fuel Economy	30.39																			
Manufacturer Test Comments	R1T - Drive Mode: All-Purpose (Default Mode) Dual Motor, Large Battery Pack, and 22" Tires. Cycle 1: 303.89 Wh/mi, Cycle 2: 292.79 Wh/mi MCT Energy: 131622.18 Wh																				

Certification Summary Information Report

Test Group		RRIVT00.0192				Evaporative/Refueling Family				--		
Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	RAF	NMOG/NM HC Ratio	Diesel Adjustment Factor	Add DF	Mult DF	Certification Level	Standard	Pass/Fail
Fed	150,000 miles	Federal Tier 3 Bin 0	CREE	0	--	--	--	0	--	0	--	--
Fed	150,000 miles	Federal Tier 3 Bin 0	CREE	0	--	--	--	0	--	0	--	--
CA	150,000 miles	California ZEV	CREE	0	--	--	--	0	--	0	--	--
CA	150,000 miles	California ZEV	CREE	0	--	--	--	0	--	0	--	--

Certification Summary Information Report

Test Group	RRIVT00.0192	Evaporative/Refueling Family	--																		
Test #	PRIV10080847	Test Procedure	86 - Charge Depleting 20 Degree F FTP																		
Exhaust Test # for this Evap Test	--	Test Fuel Type	62 - Electricity																		
Test Date	05/17/2023	Fuel	N/A																		
Fuel Batch ID	--	Fuel Calibration Number	--																		
Vehicle Class	N/A	DF Type	EPA Assigned																		
Verify Test Lab ID	FEV Michigan																				
E10 Evaporative Test Measurement Method	--																				
Test Start Odometer Reading	3679	Odometer Units	M																		
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--																		
State of Charge Delta	Yes																				
Drive Cycle Speed Tolerance Criteria	Used Part 86 (+/- 2 mph, +/- 1 sec)	Road Speed Fan Usage	Yes																		
PHEV/EV Charge Depleting Test Information																					
Recharge Event Voltage	240	Recharge Event Energy (kiloWatt-hours)	151.21																		
Charge Depleting Range (Calculated miles)	14.88	Charge Depleting Range (Actual miles)	14.88																		
Charge Depleting Range Highway (Calculated miles)	--	Derived 5-Cycle Coefficient Model Year	--																		
All Electric Range Unadjusted (miles)	--	Equivalent All Electric Range (miles)	14.88																		
Number of Charge Depleting Bags/Phases Conducted	4	Transition Bag/Phase Number	--																		
Charge Depleting Bag/Phase																					
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Charge Depleting Bag/Phase #	Test Result/Emission Name	Unrounded Test Result																			
1	Carbon-Related Exhaust Emissions	0																			
2	Drive Trace Absolute Speed Change Rating	-0.07																			
3	Drive Trace Energy Economy Rating	-0.25																			
4	Drive Trace Inertia Work Ratio Rating	-0.43																			
5	Manufacturer Fuel Economy	47.89																			
Charge Depleting Bag/Phase																					
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Charge Depleting Bag/Phase #	Test Result/Emission Name	Unrounded Test Result																			
6	Carbon-Related Exhaust Emissions	0																			
7	Drive Trace Absolute Speed Change Rating	-1.09																			
8	Drive Trace Energy Economy Rating	-0.19																			
9	Drive Trace Inertia Work Ratio Rating	-1.28																			
10	Manufacturer Fuel Economy	63.35																			
Charge Depleting Bag/Phase																					

Certification Summary Information Report

Test Group	RRIVT00.0192	Evaporative/Refueling Family	--																		
<table><tr><th>Charge Depleting Bag/Phase #</th><th>Test Result/Emission Name</th><th>Unrounded Test Result</th></tr><tr><td>11</td><td>Carbon-Related Exhaust Emissions</td><td>0</td></tr><tr><td>12</td><td>Drive Trace Absolute Speed Change Rating</td><td>0.43</td></tr><tr><td>13</td><td>Drive Trace Energy Economy Rating</td><td>-0.22</td></tr><tr><td>14</td><td>Drive Trace Inertia Work Ratio Rating</td><td>0.87</td></tr><tr><td>15</td><td>Manufacturer Fuel Economy</td><td>45.77</td></tr></table>				Charge Depleting Bag/Phase #	Test Result/Emission Name	Unrounded Test Result	11	Carbon-Related Exhaust Emissions	0	12	Drive Trace Absolute Speed Change Rating	0.43	13	Drive Trace Energy Economy Rating	-0.22	14	Drive Trace Inertia Work Ratio Rating	0.87	15	Manufacturer Fuel Economy	45.77
Charge Depleting Bag/Phase #	Test Result/Emission Name	Unrounded Test Result																			
11	Carbon-Related Exhaust Emissions	0																			
12	Drive Trace Absolute Speed Change Rating	0.43																			
13	Drive Trace Energy Economy Rating	-0.22																			
14	Drive Trace Inertia Work Ratio Rating	0.87																			
15	Manufacturer Fuel Economy	45.77																			
Charge Depleting Bag/Phase																					
<table><tr><th>Charge Depleting Bag/Phase #</th><th>Test Result/Emission Name</th><th>Unrounded Test Result</th></tr><tr><td>16</td><td>Carbon-Related Exhaust Emissions</td><td>0</td></tr><tr><td>17</td><td>Drive Trace Absolute Speed Change Rating</td><td>0.49</td></tr><tr><td>18</td><td>Drive Trace Energy Economy Rating</td><td>0.25</td></tr><tr><td>19</td><td>Drive Trace Inertia Work Ratio Rating</td><td>0.65</td></tr><tr><td>20</td><td>Manufacturer Fuel Economy</td><td>52.82</td></tr></table>				Charge Depleting Bag/Phase #	Test Result/Emission Name	Unrounded Test Result	16	Carbon-Related Exhaust Emissions	0	17	Drive Trace Absolute Speed Change Rating	0.49	18	Drive Trace Energy Economy Rating	0.25	19	Drive Trace Inertia Work Ratio Rating	0.65	20	Manufacturer Fuel Economy	52.82
Charge Depleting Bag/Phase #	Test Result/Emission Name	Unrounded Test Result																			
16	Carbon-Related Exhaust Emissions	0																			
17	Drive Trace Absolute Speed Change Rating	0.49																			
18	Drive Trace Energy Economy Rating	0.25																			
19	Drive Trace Inertia Work Ratio Rating	0.65																			
20	Manufacturer Fuel Economy	52.82																			
Manufacturer Test Comments		R1T - Drive Mode: All-Purpose (Default Mode) Dual Motor, Large Battery Pack, and 22" Tires. Cycle 1: 633.53 Wh/mi, Cycle 2: 528.20 Wh/mi, Cycle 3: 478.88 Wh/mi, Cycle 4: 457.66 Wh/mi.																			
Fuel Properties																					

Certification Summary Information Report

Test Group		RRIVT00.0192			Evaporative/Refueling Family			--	
Consolidated List of Standards									
Exhaust Standards									
Cert Region		Federal			Cert/In-Use Code			Cert	
Vehicle Class		MDPV (Federal Tier 2, GVWR 8501-10000)			Standard Level			Federal Tier 3 Bin 0	
Fuel		Electricity			Test Procedure			Charge Depleting Highway	
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
150,000 miles	CO	--	--	--	--	--	--	0	0
150,000 miles	CO-COMP	--	--	--	--	--	--	0	0
150,000 miles	CREE	--	--	--	--	--	--	0	0
150,000 miles	NMOG+NOX-COMP	--	--	--	--	--	--	0	0
Cert Region		Federal			Cert/In-Use Code			Cert	
Vehicle Class		MDPV (Federal Tier 2, GVWR 8501-10000)			Standard Level			Federal Tier 3 Bin 0	
Fuel		Electricity			Test Procedure			Charge Depleting UDDS	
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
150,000 miles	CO	--	--	--	--	--	--	0	0
150,000 miles	CO-COMP	--	--	--	--	--	--	0	0
150,000 miles	CREE	--	--	--	--	--	--	0	0
150,000 miles	NMOG+NOX-COMP	--	--	--	--	--	--	0	0
Cert Region		California + CAA Section 177 states			Cert/In-Use Code			Cert	
Vehicle Class		MDPV (Federal Tier 2, GVWR 8501-10000)			Standard Level			California ZEV	
Fuel		Electricity			Test Procedure			CVS 75 and later (w/o can. load)	
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
150,000 miles	CO	--	--	--	--	--	--	0	0

Certification Summary Information Report

Test Group		RRIVT00.0192			Evaporative/Refueling Family			--	
Cert Region		Federal			Cert/In-Use Code			Cert	
Vehicle Class		MDPV (Federal Tier 2, GVWR 8501-10000)			Standard Level			Federal Tier 3 Bin 0	
Fuel		Electricity			Test Procedure			CVS 75 and later (w/o can. load)	
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
150,000 miles	CO	--	--	--	--	--	--	0	0
Cert Region		California + CAA Section 177 states			Cert/In-Use Code			Cert	
Vehicle Class		MDPV (Federal Tier 2, GVWR 8501-10000)			Standard Level			California ZEV	
Fuel		Electricity			Test Procedure			Charge Depleting UDDS	
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
150,000 miles	CO	--	--	--	--	--	--	0	0
150,000 miles	CO-COMP	--	--	--	--	--	--	0	0
150,000 miles	CREE	--	--	--	--	--	--	0	0
150,000 miles	NMOG+NOX-COMP	--	--	--	--	--	--	0	0
Cert Region		California + CAA Section 177 states			Cert/In-Use Code			Cert	
Vehicle Class		MDPV (Federal Tier 2, GVWR 8501-10000)			Standard Level			California ZEV	
Fuel		Electricity			Test Procedure			Charge Depleting Highway	
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
150,000 miles	CO	--	--	--	--	--	--	0	0
150,000 miles	CO-COMP	--	--	--	--	--	--	0	0
150,000 miles	CREE	--	--	--	--	--	--	0	0
150,000 miles	NMOG+NOX-COMP	--	--	--	--	--	--	0	0

Certification Summary Information Report

Test Group		RRIVT00.0192	Evaporative/Refueling Family		--
Glossary					
Useful Life					
4	4,000 miles		120	120,000 miles	
50	50,000 miles		150	150,000 miles	
100	100,000 miles				
Emission Name					
HC-TOTAL	Total Hydrocarbon		N2O	Nitrous Oxide	
CO	Carbon Monoxide		SPITBACK	Spitback Hydrocarbon in grams	
CO2	Carbon dioxide		AMP-HRS	Integrated Amp-hours	
CREE	Carbon-Related Exhaust Emissions		START-SOC	System Start State of Charge Watt-hours	
OPT-CREE	Optional Carbon-Related Exhaust Emissions		END-SOC	System End State of Charge Watt-hours	
NOX	Nitrogen Oxide		ACT-DISTANCE	Actual Distance Driven (miles)	
PM	Particulate Matter		AS-VOLT	Average System Voltage	
PM-COMP	SFTP Composite Particulate Matter		CO2 BAG 1	Bag 1 Carbon Dioxide	
HC-NM	Non-methane Hydrocarbon		CO2 BAG 2	Bag 2 Carbon Dioxide	
OMHCE	Organic material Hydrocarbon Equivalent		CO2 BAG 3	Bag 3 Carbon Dioxide	
OMNMHCE	Organic material non-methane HC equivalent		CO2 BAG 4	Bag 4 Carbon Dioxide	
NMOG	Non-methane organic gases		NMOG+NOX	Non-methane organic gases plus Nitrogen Oxides	
HCHO	Formaldehyde		NMOG+NOX-COMP	SFTP Composite Non-methane Organic Gases + Nitrogen Oxides	
H3C2HO	Acetaldehyde		DT-IWRR	Drive Trace Inertia Work Ratio Rating	
HC-NM+NOX	SFTP Non-methane Hydrocarbon + Nitrogen Oxides for US06 or SC03		DT-ASCR	Drive Trace Absolute Speed Change Rating	
HC-NM+NOX-COMP	SFTP Composite Non-methane Hydrocarbon + Nitrogen Oxides		DT-EER	Drive Trace Energy Economy Rating	
CO-COMP	SFTP Composite Carbon Monoxide		COMB-CREE	Combined Carbon-Related Exhaust Emissions	
ETHANOL	C2H5OH - Ethanol		COMB-OPT-CREE	Combined Optional Carbon-Related Exhaust Emissions	
FE BAG 1	Bag 1 Fuel Economy		HC-TOTAL-EQUIV	Total Hydrocarbon equivalent - Evap only	
FE BAG 2	Bag 2 Fuel Economy		METHANE-COMB	Combined CH4 for HD 2b/3 vehicles only	
FE BAG 3	Bag 3 Fuel Economy		N2O-COMB	Combined Nitrous Oxide for HD 2b/3 vehicles only	
FE BAG 4	Bag 4 Fuel Economy		LEAK-DIA	Effective Leak Diameter (inches)	
MFR FE	Manufacturer Fuel Economy		LEAK-GAS CAP	Gas Cap Leakage (cc/min)	
HC	Hydrocarbon for Running Loss and ORVR		CO2-COMB	Combined Carbon Dioxide for HD 2b/3 Vehicles Only	
METHANE	CH4 - Methane		KW-HRS	Integrated DC KW-HRS	
METHANOL	CH3OH - Methanol				
Certification Region					
CA	California + CAA Section 177 states		FA	Federal	
Exhaust Emission Standard Level					
B1	Federal Tier 2 Bin 1		L3ULEV340	California LEV-III ULEV340	
B2	Federal Tier 2 Bin 2		L3ULEV250	California LEV-III ULEV250	
B3	Federal Tier 2 Bin 3		L3ULEV200	California LEV-III ULEV200	
B4	Federal Tier 2 Bin 4		L3SULEV170	California LEV-III SULEV170	

Certification Summary Information Report

Test Group		RRIVT00.0192	Evaporative/Refueling Family		--
B5	Federal Tier 2 Bin 5		L3SULEV150	California LEV-III SULEV150	
B6	Federal Tier 2 Bin 6		L3LEV630	California LEV-III LEV630	
B7	Federal Tier 2 Bin 7		L3ULEV570	California LEV-III ULEV570	
B8	Federal Tier 2 Bin 8		L3ULEV400	California LEV-III ULEV400	
B9	Federal Tier 2 Bin 9		L3ULEV270	California LEV-III ULEV270	
B10	Federal Tier 2 Bin 10		L3SULEV230	California LEV-III SULEV230	
B11	Federal Tier 2 Bin 11		L3SULEV200	California LEV-III SULEV200	
HDV1	HDV1 (Federal HD chassis Class 2b GVW 8501-10000)		T3B160	Federal Tier 3 Bin 160	
HDV2	HDV2 (Federal HD chassis Class 3 GVW 10001-14000)		T3B125	Federal Tier 3 Bin 125	
L2	California LEV-II LEV		T3B110	Federal Tier 3 Transitional Bin 110	
L2OP	California LEV-II LEV Optional		T3B85	Federal Tier 3 Transitional Bin 85	
U2	California LEV-II ULEV		T3SULEV30	Federal Tier 3 Transitional LEV-II SULEV30 Carryover	
S2	California LEV-II SULEV		T3B70	Federal Tier 3 Bin 70	
ZEV	California ZEV		T3B50	Federal Tier 3 Bin 50	
OT	Other		T3B30	Federal Tier 3 Bin 30	
T1	Federal Tier 1		T3B20	Federal Tier 3 Bin 20	
PZEV	California PZEV		T3B0	Federal Tier 3 Bin 0	
L2LEV160	California LEV-II LEV160		HDV2B395	Federal Tier 3 HD Class 2b Transitional Bin 395	
L2ULEV125	California LEV-II ULEV125		HDV2B340	Federal Tier 3 HD Class 2b Transitional Bin 340	
L2SULEV30	California LEV-II SULEV30		HDV2B250	Federal Tier 3 HD Class 2b Bin 250	
L2LEV395	California LEV-II LEV395		HDV2B200	Federal Tier 3 HD Class 2b Bin 200	
L2ULEV340	California LEV-II ULEV340		HDV2B170	Federal Tier 3 HD Class 2b Bin 170	
L2LEV630	California LEV-II LEV630		HDV2B150	Federal Tier 3 HD Class 2b Bin 150	
L2ULEV570	California LEV-II ULEV570		HDV2B0	Federal Tier 3 HD Class 2b Bin 0	
L3LEV160	California LEV-III LEV160		HDV3B630	Federal Tier 3 HD Class 3 Transitional Bin 630	
L3ULEV125	California LEV-III ULEV125		HDV3B570	Federal Tier 3 HD Class 3 Transitional Bin 570	
L3ULEV70	California LEV-III ULEV70		HDV3B400	Federal Tier 3 HD Class 3 Bin 400	
L3ULEV50	California LEV-III ULEV50		HDV3B270	Federal Tier 3 HD Class 3 Bin 270	
L3SULEV30	California LEV-III SULEV30		HDV3B230	Federal Tier 3 HD Class 3 Bin 230	
L3SULEV20	California LEV-III SULEV20		HDV3B200	Federal Tier 3 HD Class 3 Bin 200	
L3LEV395	California LEV-III LEV395		HDV3B0	Federal Tier 3 HD Class 3 Bin 0	
Transmission Type Code					
AMS	Automated Manual- Selectable (e.g. Automated Manual with paddles)	M	Manual		
A	Automatic	OT	Other		
AM	Automated Manual	SA	Semi-Automatic		
CVT	Continuously Variable	SCV	Selectable Continuously Variable (e.g. CVT with paddles)		
Drive System Code					
4	4-Wheel Drive	P	Part-time 4-Wheel Drive		
F	2-Wheel Drive, Front	A	All Wheel Drive		

Certification Summary Information Report

Test Group	RRIVT00.0192	Evaporative/Refueling Family	--
R	2-Wheel Drive, Rear		
Additional Terms and Acronyms			
AFC	Alternative Fuel Converter	ICI	Independent Commercial Importer
CSI	Certificate Summary Information	ORVR	Onboard Refueling Vapor Recovery
DF	Deterioration Factor	SIL	Shift Indicator Light
Evap	Evaporation, Evaporative	Trans	Transmission

Suggested ZEV Application Format for Certification

E.O.#. _____ Page 1 of 22024 MODEL-YEAR AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET
ZEV-PASSENGER CARS, LIGHT-DUTY TRUCKS AND MEDIUM-DUTY VEHICLESManufacturer: Rivian Automotive, LLC Test Group: RRIVT00.0192Vehicle Class(es): PC____, LDT1 (0-3750 lbs. LVW)____, LDT2 ($\geq 3,751$ lbs. LVW)____,
MDV6 (8,500-10,000 lbs. GVW) X, MDV7 (10,001-14,000 lbs. GVW)____ZEV Type: NEV____, ZEV XNo. of ZEV Credits per vehicle: 4.0Fuel Type: Electro-chemical Battery X, Fuel Cell____, Capacitor____, Other (specify)____

Battery Type(s): Lead Acid____ Nickel Cadmium____ SBLA____ Sodium Sulfur____

Sodium Nickel Chloride____ Nickel Metal Hydride____ Lithium Metal Disulfide____

Zinc Air____ Zinc Bromine____ Lithium Polymer____ Lithium Ion X,

Other (specify): _____

Total Battery Weight (kg.): 796 Total Battery Volume (liters): 562No. of batteries or modules per vehicle: 1 Total Battery Voltage: 400Charger(s): On-board X Off-board X Conductive X Inductive____.

Drive Motors(s): AC Induction____ DC Brush____. DC Brushless____

Switched Reluctance____ Other (specify): AC Permanent Magnet.No. of Drive Motors 2 Rated motor power 264 kW @ 6000 rpm Max rpm: 16000.Drive: FWD____ RWD____ 4WD-FT____ 4WD-PT XRegenerative Braking: No____ Yes X FW____ RW____ AW X.Driver Controlled Regen Braking: Yes X No____ Coast Regen Braking: Yes X No____.Air Conditioning: Yes X No____, Fuel Fired Heater:¹ Yes____ No X.

Vehicle Make & Models (If coded, see attachments)	Trans type M5, A4 (If applicable)	GVWR	Curb Weight	ETW or Test Weight	DPA / RLHP or Dyno Coeff. a=, b=, c=
Make: Rivian Model: R1S All-Terrain Dual Large (20in) R1T All-Terrain Dual Large (20in) R1S All-Terrain Performance Dual Large (20in) R1T All-Terrain Performance Dual Large (20in)	Automatic	8532 lbs.	6951 lbs. (R1S) 6925 lbs. (R1T)	7500 lbs.	a: 60.02 lbf b: 0.3434 lbf/mph c: 0.02458 lbf/mph ²

Date Issued: 09/14/2023

Revisions:

¹ Fuel fired heaters are not allowed in pure ZEVs for model year 2009 and subsequently.

Suggested ZEV Application Format for Certification

E.O.#. _____ Page 2 of 2

2024 MODEL-YEAR AIR RESOURCES BOARD CERTIFICATION
 REVIEW SHEET ZEV-PASSENGER CARS, LIGHT-DUTY TRUCKS AND
 MEDIUM-DUTY VEHICLES

 Manufacturer: Rivian Automotive, LLC Test Group: RRIVT00.0192

Range Test Results							
Vehicle ID	Trans	(check one) ____TW ____X____ETW	(check one) ____DPA ____RLHP Or dyno coeff.	City Range	System AC (Wh/mi)	System DC (Wh/mi)	Vehicle DC (Wh/mi)
R1S040XR20	Auto	7500 lbs.	a: 1.10 lbf b: -0.0580 lbf/mph c: 0.02458 lbf/mph ²	458.79	328.74	284.82	284.82
				Hwy. Range	System AC (Wh/mi)	System DC (Wh/mi)	Vehicle DC (Wh/mi)
				410.01	367.86	318.71	318.71

 Battery Test Results: PASS Specific Energy: Wh/kg 169

Remarks: Rated motor power 264 kW @ 6,000 rpm corresponds to Performance Dual Large.

Date Issued: 09/14/2023

Revisions:

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Application:

Processed By: _____ Date: _____ Reviewed by: _____ Date: _____

Suggested ZEV Application Format for Certification

E.O.#. _____ Page 1 of 22024 MODEL-YEAR AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET
ZEV-PASSENGER CARS, LIGHT-DUTY TRUCKS AND MEDIUM-DUTY VEHICLESManufacturer: Rivian Automotive, LLC Test Group: RRIVT00.0192Vehicle Class(es): PC____, LDT1 (0-3750 lbs. LVW)____, LDT2 ($\geq 3,751$ lbs. LVW)____,
MDV6 (8,500-10,000 lbs. GVW) X, MDV7 (10,001-14,000 lbs. GVW)____ZEV Type: NEV____, ZEV XNo. of ZEV Credits per vehicle: 4.0Fuel Type: Electro-chemical Battery X, Fuel Cell____, Capacitor____, Other (specify)____

Battery Type(s): Lead Acid____ Nickel Cadmium____ SBLA____ Sodium Sulfur____

Sodium Nickel Chloride____ Nickel Metal Hydride____ Lithium Metal Disulfide____

Zinc Air____ Zinc Bromine____ Lithium Polymer____ Lithium Ion X,

Other (specify): _____

Total Battery Weight (kg.): 796 Total Battery Volume (liters): 562No. of batteries or modules per vehicle: 1 Total Battery Voltage: 400Charger(s): On-board X Off-board X Conductive X Inductive____.

Drive Motors(s): AC Induction____ DC Brush____. DC Brushless____

Switched Reluctance____ Other (specify): AC Permanent Magnet.No. of Drive Motors 2 Rated motor power 264 kW @ 6000 rpm Max rpm: 16000.Drive: FWD____ RWD____ 4WD-FT____ 4WD-PT XRegenerative Braking: No____ Yes X FW____ RW____ AW X.Driver Controlled Regen Braking: Yes X No____ Coast Regen Braking: Yes X No____.Air Conditioning: Yes X No____, Fuel Fired Heater:¹ Yes____ No X.

Vehicle Make & Models (If coded, see attachments)	Trans type M5, A4 (If applicable)	GVWR	Curb Weight	ETW or Test Weight	DPA / RLHP or Dyno Coeff. a=, b=, c=
Make: Rivian Model: R1S Dual Large (21in) R1T Dual Large (21in) R1S Performance Dual Large (21in) R1T Performance Dual Large (21in)	Automatic	8532 lbs.	6722 lbs (R1S) 6585 lbs (R1T)	7000 lbs.	a: 45.22 lbf b: 0.6456 lbf/mph c: 0.01633 lbf/mph ²

Date Issued: 09/14/2023

Revisions:

¹ Fuel fired heaters are not allowed in pure ZEVs for model year 2009 and subsequently.

Suggested ZEV Application Format for Certification

E.O.#. _____ Page 2 of 2

2024 MODEL-YEAR AIR RESOURCES BOARD CERTIFICATION
 REVIEW SHEET ZEV-PASSENGER CARS, LIGHT-DUTY TRUCKS AND
 MEDIUM-DUTY VEHICLES

 Manufacturer: Rivian Automotive, LLC Test Group: RRIVT00.0192

Range Test Results							
Vehicle ID	Trans	(check one) ____ TW <u> X </u> ETW	(check one) ____ DPA ____ RLHP Or dyno coeff.	City Range	System AC (Wh/mi)	System DC (Wh/mi)	Vehicle DC (Wh/mi)
R1S040XR21	Auto	7000 lbs.	a: -2.18 lbf b: 0.4431 lbf/mph c: 0.01740 lbf/mph ²	520.45	291.59	251.19	251.19
				Hwy. Range	System AC (Wh/mi)	System DC (Wh/mi)	Vehicle DC (Wh/mi)
				470.21	322.74	278.03	278.03

 Battery Test Results: PASS Specific Energy: Wh/kg 169

Remarks: Rated motor power 264 kW @ 6,000 rpm corresponds to Performance Dual Large.

Date Issued: 09/14/2023 Revisions:

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Application:

Processed By: _____ Date: _____ Reviewed by: _____ Date: _____

Suggested ZEV Application Format for Certification

E.O.#. _____ Page 1 of 22024 MODEL-YEAR AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET
ZEV-PASSENGER CARS, LIGHT-DUTY TRUCKS AND MEDIUM-DUTY VEHICLESManufacturer: Rivian Automotive, LLC Test Group: RRIVT00.0192Vehicle Class(es): PC____, LDT1 (0-3750 lbs. LVW)____, LDT2 ($\geq 3,751$ lbs. LVW)____,
MDV6 (8,500-10,000 lbs. GVW) X, MDV7 (10,001-14,000 lbs. GVW)____ZEV Type: NEV____, ZEV XNo. of ZEV Credits per vehicle: 4.0Fuel Type: Electro-chemical Battery X, Fuel Cell____, Capacitor____, Other (specify)____

Battery Type(s): Lead Acid____ Nickel Cadmium____ SBLA____ Sodium Sulfur____

Sodium Nickel Chloride____ Nickel Metal Hydride____ Lithium Metal Disulfide____

Zinc Air____ Zinc Bromine____ Lithium Polymer____ Lithium Ion X,

Other (specify): _____

Total Battery Weight (kg.): 796 Total Battery Volume (liters): 562No. of batteries or modules per vehicle: 1 Total Battery Voltage: 400Charger(s): On-board X Off-board X Conductive X Inductive____.

Drive Motors(s): AC Induction____ DC Brush____. DC Brushless____

Switched Reluctance____ Other (specify): AC Permanent Magnet.No. of Drive Motors 2 Rated motor power 264 kW @ 6000 rpm Max rpm: 16000.Drive: FWD____ RWD____ 4WD-FT____ 4WD-PT XRegenerative Braking: No____ Yes X FW____ RW____ AW X.Driver Controlled Regen Braking: Yes X No____ Coast Regen Braking: Yes X No____.Air Conditioning: Yes X No____, Fuel Fired Heater:¹ Yes____ No X.

Vehicle Make & Models (If coded, see attachments)	Trans type M5, A4 (If applicable)	GVWR	Curb Weight	ETW or Test Weight	DPA / RLHP or Dyno Coeff. a=, b=, c=
Make: Rivian Model: R1S Dual Large (22in) R1S Performance Dual Large (22in)	Automatic	8532 lbs.	6735 lbs.	7000 lbs.	a: 55.14 lbf b: 0.3691 lbf/mph c: 0.02153 lbf/mph ²

Date Issued: 09/14/2023

Revisions:

¹ Fuel fired heaters are not allowed in pure ZEVs for model year 2009 and subsequently.

Suggested ZEV Application Format for Certification

E.O.#. _____ Page 2 of 2

2024 MODEL-YEAR AIR RESOURCES BOARD CERTIFICATION
 REVIEW SHEET ZEV-PASSENGER CARS, LIGHT-DUTY TRUCKS AND
 MEDIUM-DUTY VEHICLES

 Manufacturer: Rivian Automotive, LLC Test Group: RRIVT00.0192

Range Test Results							
Vehicle ID	Trans	(check one) ____TW <u>X</u> ETW	(check one) ____DPA ____RLHP Or dyno coeff.	City Range	System AC (Wh/mi)	System DC (Wh/mi)	Vehicle DC (Wh/mi)
R1S040XR22	Auto	7000 lbs.	a: 1.04 lbf b: 0.0810 lbf/mph c: 0.02389 lbf/mph ²	505.78	300.52	259.30	259.30
				Hwy. Range	System AC (Wh/mi)	System DC (Wh/mi)	Vehicle DC (Wh/mi)
				449.75	337.96	291.60	291.60

 Battery Test Results: PASS Specific Energy: Wh/kg 169

Remarks: Rated motor power 264 kW @ 6,000 rpm corresponds to Performance Dual Large.

Date Issued: 09/14/2023 Revisions:

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Application:

Processed By: _____ Date: _____ Reviewed by: _____ Date: _____

Suggested ZEV Application Format for Certification

E.O.#. _____ Page 1 of 22024 MODEL-YEAR AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET
ZEV-PASSENGER CARS, LIGHT-DUTY TRUCKS AND MEDIUM-DUTY VEHICLESManufacturer: Rivian Automotive, LLC Test Group: RRIVT00.0192Vehicle Class(es): PC____, LDT1 (0-3750 lbs. LVW)____, LDT2 ($\geq 3,751$ lbs. LVW)____,
MDV6 (8,500-10,000 lbs. GVW) X, MDV7 (10,001-14,000 lbs. GVW)____ZEV Type: NEV____, ZEV XNo. of ZEV Credits per vehicle: 4.0Fuel Type: Electro-chemical Battery X, Fuel Cell____, Capacitor____, Other (specify)____

Battery Type(s): Lead Acid____ Nickel Cadmium____ SBLA____ Sodium Sulfur____

Sodium Nickel Chloride____ Nickel Metal Hydride____ Lithium Metal Disulfide____

Zinc Air____ Zinc Bromine____ Lithium Polymer____ Lithium Ion X,

Other (specify): _____

Total Battery Weight (kg.): 796 Total Battery Volume (liters): 562No. of batteries or modules per vehicle: 1 Total Battery Voltage: 400Charger(s): On-board X Off-board X Conductive X Inductive____.

Drive Motors(s): AC Induction____ DC Brush____ DC Brushless____

Switched Reluctance____ Other (specify): AC Permanent Magnet.No. of Drive Motors 2 Rated motor power 264 kW @ 6000 rpm Max rpm: 16000.Drive: FWD____ RWD____ 4WD-FT____ 4WD-PT XRegenerative Braking: No____ Yes X FW____ RW____ AW X.Driver Controlled Regen Braking: Yes X No____ Coast Regen Braking: Yes X No____.Air Conditioning: Yes X No____, Fuel Fired Heater:¹ Yes____ No X.

Vehicle Make & Models (If coded, see attachments)	Trans type M5, A4 (If applicable)	GVWR	Curb Weight	ETW or Test Weight	DPA / RLHP or Dyno Coeff. a=, b=, c=
Make: Rivian Model: R1T Dual Large (22in) R1T Performance Dual Large (22in)	Automatic	8532 lbs.	6598 lbs.	7000 lbs.	a: 55.67 lbf b: 0.3376 lbf/mph c: 0.02298 lbf/mph ²

Date Issued: 09/14/2023

Revisions:

¹ Fuel fired heaters are not allowed in pure ZEVs for model year 2009 and subsequently.

Suggested ZEV Application Format for Certification

E.O.#. _____ Page 2 of 2

2024 MODEL-YEAR AIR RESOURCES BOARD CERTIFICATION
 REVIEW SHEET ZEV-PASSENGER CARS, LIGHT-DUTY TRUCKS AND
 MEDIUM-DUTY VEHICLES

 Manufacturer: Rivian Automotive, LLC Test Group: RRIVT00.0192

Range Test Results							
Vehicle ID	Trans	(check one) ____TW ____X____ETW	(check one) ____DPA ____RLHP Or dyno coeff.	City Range	System AC (Wh/mi)	System DC (Wh/mi)	Vehicle DC (Wh/mi)
R1T033XR22	Auto	7000 lbs.	a: -8.2 lbf b: 0.125 lbf/mph c: 0.02513 lbf/mph ²	498.89	303.10	263.83	263.83
				Hwy. Range	System AC (Wh/mi)	System DC (Wh/mi)	Vehicle DC (Wh/mi)
				441.18	342.75	298.34	298.34

 Battery Test Results: PASS Specific Energy: Wh/kg 169

Remarks:

Date Issued: 09/14/2023 Revisions:

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Application:

Processed By: _____ Date: _____ Reviewed by: _____ Date: _____

Suggested ZEV Application Format for Certification

E.O.#. _____ Page 1 of 22024 MODEL-YEAR AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET
ZEV-PASSENGER CARS, LIGHT-DUTY TRUCKS AND MEDIUM-DUTY VEHICLESManufacturer: Rivian Automotive, LLC Test Group: RRIVT00.0192Vehicle Class(es): PC____, LDT1 (0-3750 lbs. LVW)____, LDT2 ($\geq 3,751$ lbs. LVW)____,
MDV6 (8,500-10,000 lbs. GVW) X, MDV7 (10,001-14,000 lbs. GVW)____ZEV Type: NEV____, ZEV XNo. of ZEV Credits per vehicle: 4.0Fuel Type: Electro-chemical Battery X, Fuel Cell____, Capacitor____, Other (specify)____

Battery Type(s): Lead Acid____ Nickel Cadmium____ SBLA____ Sodium Sulfur____

Sodium Nickel Chloride____ Nickel Metal Hydride____ Lithium Metal Disulfide____

Zinc Air____ Zinc Bromine____ Lithium Polymer____ Lithium Ion X,

Other (specify): _____

Total Battery Weight (kg.): 796 Total Battery Volume (liters): 562No. of batteries or modules per vehicle: 1 Total Battery Voltage: 400Charger(s): On-board X Off-board X Conductive X Inductive____.

Drive Motors(s): AC Induction____ DC Brush____ DC Brushless____

Switched Reluctance____ Other (specify): AC Permanent Magnet.No. of Drive Motors 2 Rated motor power 264 kW @ 6000 rpm Max rpm: 16000.Drive: FWD____ RWD____ 4WD-FT____ 4WD-PT XRegenerative Braking: No____ Yes X FW____ RW____ AW X.Driver Controlled Regen Braking: Yes X No____ Coast Regen Braking: Yes X No____.Air Conditioning: Yes X No____, Fuel Fired Heater:¹ Yes____ No X.

Vehicle Make & Models (If coded, see attachments)	Trans type M5, A4 (If applicable)	GVWR	Curb Weight	ETW or Test Weight	DPA / RLHP or Dyno Coeff. a=, b=, c=
Make: Rivian Model: R1S Dual Standard (21in) R1T Dual Standard (21in)	Automatic	8532 lbs.	6722 lbs (R1S) 6585 lbs (R1T)	7000 lbs.	a: 45.22 lbf b: 0.6456 lbf/mph c: 0.01633 lbf/mph ²

Date Issued: 02/26/2024

Revisions:

¹ Fuel fired heaters are not allowed in pure ZEVs for model year 2009 and subsequently.

Suggested ZEV Application Format for Certification

E.O.#. _____ Page 2 of 22024 MODEL-YEAR AIR RESOURCES BOARD CERTIFICATION
REVIEW SHEET ZEV-PASSENGER CARS, LIGHT-DUTY TRUCKS AND
MEDIUM-DUTY VEHICLESManufacturer: Rivian Automotive, LLC Test Group: RRIVT00.0192

Range Test Results							
Vehicle ID	Trans	(check one) ____TW ____X____ETW	(check one) ____DPA ____RLHP Or dyno coeff.	City Range	System AC (Wh/mi)	System DC (Wh/mi)	Vehicle DC (Wh/mi)
R1S040XR21 Dual Standard	Auto	7000 lbs.	a: -6.9 lbf b: 0.663 lbf/mph c: 0.0159 lbf/mph ²	470.26	262.61	259.65	259.65
				Hwy. Range	System AC (Wh/mi)	System DC (Wh/mi)	Vehicle DC (Wh/mi)
				425.77	290.05	286.78	286.78

Battery Test Results: PASS Specific Energy: Wh/kg 169

Remarks: Rated motor power 264 kW @ 6,000 rpm corresponds to Performance Dual Large.

Date Issued: 02/26/2024

Revisions:

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Application:

Processed By: _____ Date: _____ Reviewed by: _____ Date: _____

Suggested ZEV Application Format for Certification

E.O.#. _____ Page 1 of 22024 MODEL-YEAR AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET
ZEV-PASSENGER CARS, LIGHT-DUTY TRUCKS AND MEDIUM-DUTY VEHICLESManufacturer: Rivian Automotive, LLC Test Group: RRIVT00.0192Vehicle Class(es): PC____, LDT1 (0-3750 lbs. LVW)____, LDT2 ($\geq$ 3,751 lbs. LVW)____,
MDV6 (8,500-10,000 lbs. GVW) X, MDV7 (10,001-14,000 lbs. GVW)____ZEV Type: NEV____, ZEV XNo. of ZEV Credits per vehicle: 4.0Fuel Type: Electro-chemical Battery X, Fuel Cell____, Capacitor____, Other (specify)____

Battery Type(s): Lead Acid____ Nickel Cadmium____ SBLA____ Sodium Sulfur____

Sodium Nickel Chloride____ Nickel Metal Hydride____ Lithium Metal Disulfide____

Zinc Air____ Zinc Bromine____ Lithium Polymer____ Lithium Ion X,

Other (specify): _____

Total Battery Weight (kg.): 796 Total Battery Volume (liters): 562No. of batteries or modules per vehicle: 1 Total Battery Voltage: 400Charger(s): On-board X Off-board X Conductive X Inductive____.

Drive Motors(s): AC Induction____ DC Brush____. DC Brushless____

Switched Reluctance____ Other (specify): AC Permanent Magnet.No. of Drive Motors 2 Rated motor power 264 kW @ 6000 rpm Max rpm: 16000.Drive: FWD____ RWD____ 4WD-FT____ 4WD-PT XRegenerative Braking: No____ Yes X FW____ RW____ AW X.Driver Controlled Regen Braking: Yes X No____ Coast Regen Braking: Yes X No____.Air Conditioning: Yes X No____, Fuel Fired Heater:¹ Yes____ No X.

Vehicle Make & Models (If coded, see attachments)	Trans type M5, A4 (If applicable)	GVWR	Curb Weight	ETW or Test Weight	DPA / RLHP or Dyno Coeff. a=, b=, c=
Make: Rivian Model: R1S Dual Standard (22in) R1T Dual Standard (22in)	Automatic	8532 lbs.	6722 lbs (R1S) 6585 lbs (R1T)	7000 lbs.	a: 55.67 lbf b: 0.3376 lbf/mph c: 0.02298 lbf/mph ²

Date Issued: 02/26/2024

Revisions:

¹ Fuel fired heaters are not allowed in pure ZEVs for model year 2009 and subsequently.

Suggested ZEV Application Format for Certification

E.O.#. _____ Page 2 of 2

2024 MODEL-YEAR AIR RESOURCES BOARD CERTIFICATION
REVIEW SHEET ZEV-PASSENGER CARS, LIGHT-DUTY TRUCKS AND
MEDIUM-DUTY VEHICLES

Manufacturer: Rivian Automotive, LLC Test Group: RRIVT00.0192

Range Test Results							
Vehicle ID	Trans	(check one) ____TW ____X____ETW	(check one) ____DPA ____RLHP Or dyno coeff.	City Range	System AC (Wh/mi)	System DC (Wh/mi)	Vehicle DC (Wh/mi)
R1S040XR22 Dual Standard	Auto	7000 lbs.	a: 0.8 lbf b: 0.159 lbf/mph c: 0.0248 lbf/mph ²	388.96	319.08	275.62	275.62
				Hwy. Range	System AC (Wh/mi)	System DC (Wh/mi)	Vehicle DC (Wh/mi)
				347.47	357.18	308.53	308.53

Battery Test Results: PASS Specific Energy: Wh/kg 169

Remarks: Rated motor power 264 kW @ 6,000 rpm corresponds to Performance Dual Large.

Date Issued: 02/26/2024 Revisions:

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Application:

Processed By: _____ Date: _____ Reviewed by: _____ Date: _____

Suggested ZEV Application Format for Certification

E.O.#. _____ Page 1 of 22024 MODEL-YEAR AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET
ZEV-PASSENGER CARS, LIGHT-DUTY TRUCKS AND MEDIUM-DUTY VEHICLESManufacturer: Rivian Automotive, LLC Test Group: RRIVT00.0192Vehicle Class(es): PC____, LDT1 (0-3750 lbs. LVW)____, LDT2 ($\geq$ 3,751 lbs. LVW)____,
MDV6 (8,500-10,000 lbs. GVW) X, MDV7 (10,001-14,000 lbs. GVW)____ZEV Type: NEV____, ZEV XNo. of ZEV Credits per vehicle: 4.0Fuel Type: Electro-chemical Battery X, Fuel Cell____, Capacitor____, Other (specify)____

Battery Type(s): Lead Acid____ Nickel Cadmium____ SBLA____ Sodium Sulfur____

Sodium Nickel Chloride____ Nickel Metal Hydride____ Lithium Metal Disulfide____

Zinc Air____ Zinc Bromine____ Lithium Polymer____ Lithium Ion X,

Other (specify): _____

Total Battery Weight (kg.): 796 (50G), 820 (53G) Total Battery Volume (liters): 562No. of batteries or modules per vehicle: 1 Total Battery Voltage: 400Charger(s): On-board X Off-board X Conductive X Inductive____.

Drive Motors(s): AC Induction____ DC Brush____. DC Brushless____

Switched Reluctance____ Other (specify): AC Permanent Magnet.No. of Drive Motors 2 Rated motor power 264 kW @ 6000 rpm Max rpm: 16000.Drive: FWD____ RWD____ 4WD-FT____ 4WD-PT XRegenerative Braking: No____ Yes X FW____ RW____ AW X.Driver Controlled Regen Braking: Yes X No____ Coast Regen Braking: Yes X No____.Air Conditioning: Yes X No____, Fuel Fired Heater:¹ Yes____ No X.

Vehicle Make & Models (If coded, see attachments)	Trans type M5, A4 (If applicable)	GVWR	Curb Weight	ETW or Test Weight	DPA / RLHP or Dyno Coeff. a=, b=, c=
Make: Rivian Model: R1S All-Terrain Dual Standard Plus (20in) R1T All-Terrain Dual Standard Plus (20in) R1S All-Terrain Performance Dual Standard Plus (20in) R1T All-Terrain Performance Dual Standard Plus (20in)	Automatic	8532 lbs.	6951 lbs (R1S, 50G) 6925 lbs (R1T, 50G) 6997 lbs (R1S, 53G) 7028 lbs (R1T, 53G)	7500 lbs.	a: 60.02 lbf b: 0.3434 lbf/mph c: 0.02458 lbf/mph ²

Date Issued: 04/02/2024

Revisions:

¹ Fuel fired heaters are not allowed in pure ZEVs for model year 2009 and subsequently.

Suggested ZEV Application Format for Certification

E.O.#. _____ Page 2 of 22024 MODEL-YEAR AIR RESOURCES BOARD CERTIFICATION
REVIEW SHEET ZEV-PASSENGER CARS, LIGHT-DUTY TRUCKS AND
MEDIUM-DUTY VEHICLESManufacturer: Rivian Automotive, LLC Test Group: RRIVT00.0192

Range Test Results							
Vehicle ID	Trans	(check one) ____TW ____X ETW	(check one) ____DPA ____RLHP Or dyno coeff.	City Range	System AC (Wh/mi)	System DC (Wh/mi)	Vehicle DC (Wh/mi)
R1S2390R20	Auto	7500 lbs.	a: -1.36 lbf b: -0.1690 lbf/mph c: 0.02799 lbf/mph ²	411.30	346.46	299.87	299.87
				Hwy. Range	System AC (Wh/mi)	System DC (Wh/mi)	Vehicle DC (Wh/mi)
				375.21	379.78	328.70	328.70

Battery Test Results: PASS Specific Energy: Wh/kg 169 (50G), 182 (53G)

Remarks: Rated motor power 264 kW @ 6,000 rpm corresponds to Performance Dual Large.

Date Issued: 04/02/2024

Revisions:

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Application:

Processed By: _____ Date: _____ Reviewed by: _____ Date: _____

Suggested ZEV Application Format for Certification

E.O.#. _____ Page 1 of 22024 MODEL-YEAR AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET
ZEV-PASSENGER CARS, LIGHT-DUTY TRUCKS AND MEDIUM-DUTY VEHICLESManufacturer: Rivian Automotive, LLC Test Group: RRIVT00.0192Vehicle Class(es): PC____, LDT1 (0-3750 lbs. LVW)____, LDT2 ($\geq 3,751$ lbs. LVW)____,
MDV6 (8,500-10,000 lbs. GVW) X, MDV7 (10,001-14,000 lbs. GVW)____ZEV Type: NEV____, ZEV XNo. of ZEV Credits per vehicle: 4.0Fuel Type: Electro-chemical Battery X, Fuel Cell____, Capacitor____, Other (specify)____

Battery Type(s): Lead Acid____ Nickel Cadmium____ SBLA____ Sodium Sulfur____

Sodium Nickel Chloride____ Nickel Metal Hydride____ Lithium Metal Disulfide____

Zinc Air____ Zinc Bromine____ Lithium Polymer____ Lithium Ion X,

Other (specify): _____

Total Battery Weight (kg.): 796 (50G), 820 (53G) Total Battery Volume (liters): 562No. of batteries or modules per vehicle: 1 Total Battery Voltage: 400Charger(s): On-board X Off-board X Conductive X Inductive____.

Drive Motors(s): AC Induction____ DC Brush____. DC Brushless____

Switched Reluctance____ Other (specify): AC Permanent Magnet.No. of Drive Motors 2 Rated motor power 264 kW @ 6000 rpm Max rpm: 16000.Drive: FWD____ RWD____ 4WD-FT____ 4WD-PT XRegenerative Braking: No____ Yes X FW____ RW____ AW X.Driver Controlled Regen Braking: Yes X No____ Coast Regen Braking: Yes X No____.Air Conditioning: Yes X No____, Fuel Fired Heater:¹ Yes____ No X.

Vehicle Make & Models (If coded, see attachments)	Trans type M5, A4 (If applicable)	GVWR	Curb Weight	ETW or Test Weight	DPA / RLHP or Dyno Coeff. a=, b=, c=
Make: Rivian Model: R1S Dual Standard Plus (21in) R1T Dual Standard Plus (21in) R1S Performance Dual Standard Plus (21in) R1T Performance Dual Standard Plus (21in)	Automatic	8532 lbs.	6722 lbs (R1S, 50G) 6585 lbs (R1T, 50G) 6768 lbs (R1S, 53G) 6768 lbs (R1T, 53G)	7000 lbs.	a: 45.22 lbf b: 0.6456 lbf/mph c: 0.01633 lbf/mph ²

Date Issued: 04/02/2024

Revisions:

¹ Fuel fired heaters are not allowed in pure ZEVs for model year 2009 and subsequently.

Suggested ZEV Application Format for Certification

E.O.#. _____ Page 2 of 22024 MODEL-YEAR AIR RESOURCES BOARD CERTIFICATION
REVIEW SHEET ZEV-PASSENGER CARS, LIGHT-DUTY TRUCKS AND
MEDIUM-DUTY VEHICLESManufacturer: Rivian Automotive, LLC Test Group: RRIVT00.0192

Range Test Results							
Vehicle ID	Trans	(check one) ____TW ____X____ETW	(check one) ____DPA ____RLHP Or dyno coeff.	City Range	System AC (Wh/mi)	System DC (Wh/mi)	Vehicle DC (Wh/mi)
R1S2390R21	Auto	7000 lbs.	a: 1.90 lbf b: 0.1265 lbf/mph c: 0.02067 lbf/mph ²	486.06	295.14	253.99	253.99
				Hwy. Range	System AC (Wh/mi)	System DC (Wh/mi)	Vehicle DC (Wh/mi)
				447.36	320.67	275.96	275.96

Battery Test Results: PASS Specific Energy: Wh/kg 169 (50G), 182 (53G)

Remarks: Rated motor power 264 kW @ 6,000 rpm corresponds to Performance Dual Large.

Date Issued: 04/02/2024

Revisions:

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Application:

Processed By: _____ Date: _____ Reviewed by: _____ Date: _____

Suggested ZEV Application Format for Certification

E.O.#. _____ Page 1 of 22024 MODEL-YEAR AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET
ZEV-PASSENGER CARS, LIGHT-DUTY TRUCKS AND MEDIUM-DUTY VEHICLESManufacturer: Rivian Automotive, LLC Test Group: RRIVT00.0192Vehicle Class(es): PC____, LDT1 (0-3750 lbs. LVW)____, LDT2 ($\geq 3,751$ lbs. LVW)____,
MDV6 (8,500-10,000 lbs. GVW) X, MDV7 (10,001-14,000 lbs. GVW)____ZEV Type: NEV____, ZEV XNo. of ZEV Credits per vehicle: 4.0Fuel Type: Electro-chemical Battery X, Fuel Cell____, Capacitor____, Other (specify)____

Battery Type(s): Lead Acid____ Nickel Cadmium____ SBLA____ Sodium Sulfur____

Sodium Nickel Chloride____ Nickel Metal Hydride____ Lithium Metal Disulfide____

Zinc Air____ Zinc Bromine____ Lithium Polymer____ Lithium Ion X,

Other (specify): _____

Total Battery Weight (kg.): 796 (50G), 820 (53G) Total Battery Volume (liters): 562No. of batteries or modules per vehicle: 1 Total Battery Voltage: 400Charger(s): On-board X Off-board X Conductive X Inductive____.

Drive Motors(s): AC Induction____ DC Brush____. DC Brushless____

Switched Reluctance____ Other (specify): AC Permanent Magnet.No. of Drive Motors 2 Rated motor power 264 kW @ 6000 rpm Max rpm: 16000.Drive: FWD____ RWD____ 4WD-FT____ 4WD-PT XRegenerative Braking: No____ Yes X FW____ RW____ AW X.Driver Controlled Regen Braking: Yes X No____ Coast Regen Braking: Yes X No____.Air Conditioning: Yes X No____, Fuel Fired Heater:¹ Yes____ No X.

Vehicle Make & Models (If coded, see attachments)	Trans type M5, A4 (If applicable)	GVWR	Curb Weight	ETW or Test Weight	DPA / RLHP or Dyno Coeff. a=, b=, c=
Make: Rivian Model: R1S Dual Standard Plus (22in) R1T Dual Standard Plus (22in) R1S Performance Dual Standard Plus (22in) R1T Performance Dual Standard Plus (22in)	Automatic	8532 lbs.	6735 lbs (R1S ,50G) 6598 lbs (R1T, 50G) 6731 lbs (R1S ,53G) 6722 lbs (R1T, 53G)	7000 lbs.	a: 55.67 lbf b: 0.3376 lbf/mph c: 0.02298 lbf/mph ²

Date Issued: 04/02/2024

Revisions:

¹ Fuel fired heaters are not allowed in pure ZEVs for model year 2009 and subsequently.

Suggested ZEV Application Format for Certification

E.O.#. _____ Page 2 of 22024 MODEL-YEAR AIR RESOURCES BOARD CERTIFICATION
REVIEW SHEET ZEV-PASSENGER CARS, LIGHT-DUTY TRUCKS AND
MEDIUM-DUTY VEHICLESManufacturer: Rivian Automotive, LLC Test Group: RRIVT00.0192

Range Test Results							
Vehicle ID	Trans	(check one) ____TW <u>X</u> ETW	(check one) ____DPA ____RLHP Or dyno coeff.	City Range	System AC (Wh/mi)	System DC (Wh/mi)	Vehicle DC (Wh/mi)
R1S2390R22	Auto	7000 lbs.	a: -0.91 lbf b: -0.0429 lbf/mph c: 0.02607 lbf/mph ²	461.19	311.37	268.48	268.48
				Hwy. Range	System AC (Wh/mi)	System DC (Wh/mi)	Vehicle DC (Wh/mi)
				414.41	346.52	298.79	298.79

Battery Test Results: PASS Specific Energy: Wh/kg 169 (50G), 182 (53G)

Remarks: Rated motor power 264 kW @ 6,000 rpm corresponds to Performance Dual Large.

Date Issued: 04/02/2024

Revisions:

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Application:

Processed By: _____ Date: _____ Reviewed by: _____ Date: _____