



3/4/2024

Mr. Daniel Cullen
Vehicle Programs and Compliance Division
Environmental Protection Agency
2000 Traverwood,
Ann Arbor, MI 48105

Subject: Request for issuance of a new Certificate of Conformity - initial application

Tesla, Inc. requests that the EPA issue a Certificate of Conformity for the subject test group.

Attached to this request is a running change to the RTSLV00.0L2Y test group (Model Y with one front and one rear motor) application which adds the Model Y Performance AWD carline. Tesla believes that the test group complies with all applicable regulations contained within Title 40 of the CFR, California Amendments to Subparts B, C, and S, Part 86 and Part 88, Title 40 of the CFR and Title 13 of the California Code of Regulations

Vehicle Category:	Light Duty Vehicle (< 8000 lbs. GVW)
Durability Group:	RTSLEEVNNL2Y
Test Group:	RTSLV00.0L2Y
Summary Sheet No:	NA
Durability Group Description:	NA
Durability Vehicle:	NA
OBD Group:	NA
Test Group Description:	Tesla differentiates test groups based on: 1) battery type, 2) number of drive motors, and 3) vehicle line. L - Lithium Ion Battery 2 - AWD Motor Y - Model Y Line of vehicles
Applicable Standards:	FEDERAL Tier 3 BIN 0 & CALIFORNIA ZEV
Carlines Covered by this certificate:	Model Y Long Range AWD, Performance AWD

Your early review and issuance of the certificate will be greatly appreciated. If you have any questions, please contact me at our office at (510) 249-3755

Sincerely,

Suraj Nagaraj
Sr. Director - Vehicle Homologation

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1 COMMUNICATIONS

1.01 Mailing information

01.01.01 Certification information

Tesla, Inc
3500 Deer Creek Road
Palo Alto, CA 94304

01.01.02 Responsible officials

01.01.03 - Primary Contact

Mr. Suraj Nagaraj, Sr Director- Vehicle Homologation
Telephone 510 249 8749

01.01.04 - Secondary Contact

Mr. Sandeep Pannu, Staff Homologation Engineer - Vehicle Homologation
Telephone 341-345-5043
Mr. Derek Yam, Staff Homologation Engineer - Vehicle Homologation
Telephone 650-793-0327

3 FACILITIES, EQUIPMENT AND TEST PROCEDURES

Internal range test reports are on file at Tesla

3.01 Procedure to determine mass emissions of the fuel-fired heater

Not applicable; vehicle not equipped with a fuel fired heater.

3.02 Battery pre-conditioning procedures

The lithium ion battery cells are cycled by the battery cell manufacturer before they are assembled into battery packs. There is no further pre-conditioning necessary.

3.03 Vehicle Configurations and sub configurations

Refer to Appendix 03.03

3.04 TEST PROCEDURES

SAE J1634 was followed for all Range testing and SAE J2263 (as issued 2008-12) was followed for Road load measurement.

SPECIAL TEST INSTRUCTIONS

- See attachment

04.00 Statement of Compliance

This vehicle conforms to US EPA Federal Tier 3 Bin 0 and State of California regulations applicable to 2024 Model Year new ZEV Light-duty Vehicles

05.00 RESERVED

06.00 MAINTENANCE

6.01 Test vehicle scheduled maintenance

Not applicable.

6.02 Recommended customer maintenance schedule

See Owner Hand Book.

6.03 Lubricants and heater fuels

Heater fuel:	Not applicable
Transmission Lubricant:	Factory Fill
Capacity	1750 mL (Front), 2750 mL (Rear)
Make	SK
Trade name	ATF-1351-G
Type	Synthetic
Viscosity	9210 cP at -40°C
Viscosity	5.9 cSt at 100°C

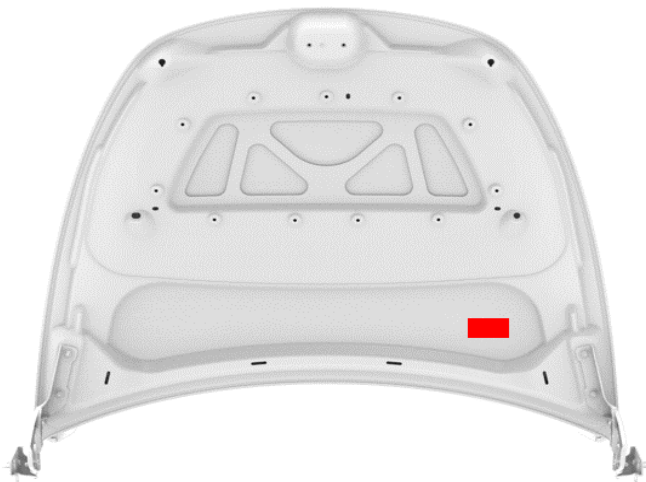
Test Vehicle

Same as factory fill

07.00 LABELS

07.01 Label locations

VECI Emission Label



See 07.02

Monroney Label



See 07.03

07.02 Emission Control Information label: 2024 Model Year
(Mandated in CFR Title 40, Part 86; §86.1807. Label format agreed with EPA)

VEHICLE EMISSION CONTROL INFORMATION

THIS VEHICLE CONFORMS TO U.S. EPA REGULATIONS APPLICABLE TO 2024 MODEL YEAR NEW TIER 3 BIN 0 LIGHT-DUTY VEHICLES AND TO CALIFORNIA REGULATIONS APPLICABLE TO ZEV PASSENGER CARS AND IS CERTIFIED FOR SALE IN CALIFORNIA.

MODEL: 2024 TESLA MODEL Y
MOTOR: 3 PHASE AC
TEST GROUP: RTSLV00.0LZY
EVAPORATIVE FAMILY: RTSLR0000LZY

MFD BY TESLA, INC.
WITH TIRES

GVWR	WITH TIRES	RIM	COLD TIRE PRESSURE
GAWR FRT	WITH TIRES	RIM	COLD TIRE PRESSURE
GAWR RR	WITH TIRES	RIM	COLD TIRE PRESSURE

THIS VEHICLE CONFORMS TO ALL APPLICABLE U.S. FEDERAL MOTOR VEHICLE SAFETY, BUMPER, AND THEFT PREVENTION STANDARDS IN EFFECT ON THE DATE OF MANUFACTURE SHOWN ABOVE.

07.03 California Environmental Performance Index label: 2024 Model Year
(Mandated in California Environmental Performance Label Specifications for 2009 and Subsequent Model Passenger Cars, Light-Duty Trucks and Medium-Duty Passenger Cars. Label format agreed with EPA/ CARB)

Model Y AWD - FE Label

EPA DOT Fuel Economy and Environment

Electric Vehicle

Fuel Economy These estimates reflect new EPA methods beginning with 2017 models.

MPGe Small sport utility vehicle cars range from 16 to 120 MPGe. The best vehicle rates 141 MPGe.

You save \$##### in fuel costs over 5 years compared to the average new vehicle.

Driving Range When fully charged, vehicle can travel about... **### miles**

Charge Time: 10 hours (240V)

Annual fuel cost \$###

Fuel Economy & Greenhouse Gas Rating (tailpipe only) **10** Best

Smog Rating (tailpipe only) **10** Best

Actual results will vary for many reasons, including driving conditions and how you drive and maintain your vehicle. The average new vehicle gets 27 MPG and costs \$ 7,500 to fuel over 5 years. Cost estimates are based on 15,000 miles per year at 0.13 per kW-hr. MPGe is miles per gasoline gallon equivalent. Vehicle emissions are a significant cause of climate change and smog.

fuel economy.gov
Calculate personalized estimates and compare vehicles

Smartphone QR Code

<http://fuel economy.gov/1d=2019TSL045>

07.04 Projected sales information (Confidential)

08:00 GENERAL TECHNICAL DESCRIPTION

08.01 DESCRIPTION OF PROPULSION SYSTEM

Rear Drive Unit:

Traction motor × 1,
Fixed ratio gearbox,
Drive inverter

Rear Drive Unit:

Traction motor × 1,
Fixed ratio gearbox,
Drive inverter

8.02 DESCRIPTION OF MOTOR(S)

Front motor:

3-Phase AC induction motor utilizing a squirrel cage 4 pole, variable frequency drive to control the motor.

Rear motor:

3-phase AC internal permanent magnet motor utilizing a six-pole, high-frequency design with inverter-controlled magnetic flux.

8.03 DESCRIPTION OF BATTERIES

The battery packs used in the Tesla Model Y is one of the most technically advanced lithium-ion battery packs in the world. Using customized automotive grade lithium-ion cells, the Tesla battery achieves unmatched energy density and enables the long range capability of the vehicle. The low-profile flat packaging enables an efficient and functional occupant area. The battery has replaceable active short circuit protection that is accessible with the battery in the vehicle via an access panel. A set of switches inside the pack disconnect high voltage from the positive and negative terminals on the battery pack when not in use. To disable the switches from closing during vehicle service, the 12V power feed can be disconnected at the low voltage wiring connector into the battery pack. The battery control system consists of the Battery Monitoring System (BMS) which controls the switches, measures pack current and voltages, electrical isolation of the battery from chassis ground and monitors cell voltages and module temperatures from the Battery Monitor Boards (BMBs) installed on each of the modules.

08.03.01 Battery charging capacity

The fully charged battery contains a minimum amount of usable energy when new, based on the battery type/option fitted to the vehicle.

08.03.02 Self-discharge information

The self-discharge rate of the High Voltage battery is likely to be less than 0.5% per month.

08.03.03 Description of thermal management system

The Tesla battery pack contains an integrated cooling system to ensure that the individual cells are maintained at, or close to, their optimum operating temperature. Incorporated in the vehicle system is an inline heating element to raise and a chiller to lower the pack temperature, when required.

08.03.04 Definition of end-of-life

The battery pack end-of-life shall be determined by Tesla's local service centers with Proper inspection and test methods.

08.03.05 Description of battery disposal plan

Tesla's lithium ion battery packs do not contain heavy metals such as lead, Cadmium, or mercury. They are exempt from hazardous waste disposal standards in the USA under the Universal Waste Regulations. However, they do contain recyclable materials, and Tesla plans to recycle all battery packs removed from vehicles.

Tesla highly recommends that all battery packs be taken to local Tesla service facilities and recycled by Tesla or Tesla authorized agencies, so that the battery packs can be recycled in a safe and efficient manner.

If disposing independently, without return to Tesla, then the owner must assume responsibility for recycling in a safe and legal manner. If an owner does assume this responsibility, Tesla recommends consulting with the appropriate local, state or federal authorities to determine the appropriate methods for disposal and recycling. Keep in mind that disposal regulations may vary dependent on location.

For more information on the recycling of Tesla custom battery packs, please call Tesla Customer Service at 1-877-79TESLA (1-877-798-3752).

08.04 DESCRIPTION OF CONTROLLER / INVERTER

The drive inverter performs several critical functions in the Tesla Model Y including torque control, power and torque limit enforcement, and status monitoring. The drive inverter is an integral part of the drive unit.

08.05 DESCRIPTION OF TRANSMISSION

The transmission is a fixed ratio, mechanical, transversely mounted gearbox with integral final drive (transaxle configuration).

The shift lever is mounted to the steering column. The lever has five detents— that can select Reverse, Neutral, Drive, Cruise and Autopilot (if equipped). Selecting either forward or reverse position enables drive current to the motor to generate the appropriate torque. There is no physical reverse gear needed.

In addition, the lever has a park button which is used to operate the electrically-actuated park brake.

Transmission Shift lever - Steering column



8.06 DESCRIPTION OF CLIMATE CONTROL SYSTEM

General Specifications:

The Model Y climate control modes include Defrost, Panel and Floor (or any combination of these three). The system consists of two panel vents, two front row floor vents, defroster vent, second row floor vents, second row console vents with positive air shut off and turning vane manual control.

08.06.01 Electric cabin heater

The heater unit incorporating a variable speed electric fan is located in the front of the chassis tub with ducting directing the blown air to defrosting, face level and floor level vents in the passenger compartment.

The heater element is of the heat pump, drawing HV electrical energy from the battery pack High Voltage.

Tesla Model Y's heat pump reduces the energy required by the HVAC system in both heating and cooling scenarios. The energy required to heat the cabin varies by weather and occupant comfort needs, but on-average consumes approximately 10% of the total energy available for driving. However, even moderately cold weather (0°C), consumption can increase to 25% or more. A heat pump consumes a small amount of electrical energy to thermodynamically "upgrade" low-temperature (less useful) thermal energy to higher-temperature (more useful) thermal energy, making it suitable for occupant comfort. That is, for a given electrical power input, a heat pump will return 1 to 5x in useful heating power; an electrical cabin heater provides 1:1 in heating power, and therefore is far less efficient.

Typically, this is accomplished using conventional refrigeration system components, e.g., compressors, valves, heat exchangers and so on, configured or connected together in a specific way. Tesla's heat pump uses conventional components with unconventional flexibility or cycle configuration. A heat pump must generally have a low-temperature source from which to draw energy. Tesla's system enables the heat pump source to be either the power-train coolant loop, e.g., low-temperature waste heat produced naturally by the vehicle while driving, ambient air, the battery thermal mass, the cabin thermal mass, or combinations thereof. Another advantage of this architecture is the ability to reject heat into the battery pack via a liquid-cooled condenser for a limited amount of time during cabin cooling scenarios when the temperature of the battery is modest. Therefore, for most startups with AC on, the relatively cool, well-coupled, large thermal mass serves to lower discharge pressure and therefore reduces compressor input power relative to a conventional air-cooled condenser setup.

Modern automotive heat pump systems using an HFC/HFO refrigerant suffer from low heating capacity in extremely cold ambient conditions, e.g., minus 10°C and below. Therefore, these conventional systems retain an expensive high-voltage cabin heater to cover heating deficits whenever the heat pump capacity is insufficient. Tesla's heat pump system also provides ways to remove a cabin air high voltage PTC heater completely by using the compressor as an electrical heater in specific scenarios. In fact, the electrical power draw capability of the compressor significantly exceeds a typical HV cabin PTC heater capability. This last point is accomplished via Tesla's unique architecture – the cycle is configured in such a way to provide a controlled environment for the compressor, regardless of ambient conditions, and ultimately unlocks the full electrical input power. Therefore, Tesla's thermal system can sometimes operate like a heat pump (heat efficiently) and sometimes like an electrical heater when heat pump capacity is not sufficient for comfort – using the same compressor.

08.06.02 Fuel-fired heater

Not applicable

08.06.03 Air conditioning

The Model Y air conditioner system is an R134a refrigerant consists of a high voltage electric scroll type with integrated inverter with High Voltage Interlock Loop. The compressor Oil is Poly Olefin Ester oil that is non-conducting.

08.06.04 Climate control system logic

Vehicle Controller printed circuit boards activate actuators and responds to evaporator air outlet temperature sensor, heat pump condenser outlet temperature sensor and air duct temperature sensors, as well as user demands from center display.

08.06.05 Tamper resistance of climate control system that includes a fuel-fired heater

Not applicable

08.07 DESCRIPTION OF REGENERATIVE BRAKING SYSTEM

Regenerative braking (RGB) occurs when the driver lifts his foot from the accelerator pedal while the vehicle is moving; the experience is analogous to engine braking on a gasoline-powered car with a conventional manual transmission. The friction braking system is independent of RGB.

The amount of RGB torque generated depends on the accelerator pedal position – largest when the accelerator pedal is fully released, decreasing as the pedal is depressed, reaching zero torque when the pedal reaches its neutral torque position (a position that is a function of vehicle speed). The max RGB deceleration also varies depending on vehicle speed. The maximum RGB profile is defined as a target total deceleration rate as a function of vehicle speed. The max RGB profile is tailored to everyday driving conditions, which typically exhibit higher deceleration rates at lower speeds.

When the battery pack is near maximum capacity, regenerative braking function will be limited to ensure the maximum capacity of the battery is not exceeded. Any RGB limiting will be ramped in gradually to allow the driver to adapt to the changing RGB performance. When the battery pack is below 0 degrees, RGB will not be allowed because the batteries are not rated to accept charge below this temperature. Any RGB limiting will be ramped in gradually to allow the driver to adapt to the changing RGB performance. The vehicle notifies the driver of any limits on the regenerative braking function.

08.08 DESCRIPTION OF VEHICLE ELECTRICAL SUPPLY EQUIPMENT (CHARGER)

The Tesla Model Y is capable of accepting energy either from a permanent facility installed at the owners location or from many readily available power outlets when 'on the road'.

Optional - The dedicated High Power Connector (HPC) can be purchased separately from the vehicle and a certified electrician will confirm the capabilities of the residential supply circuit at the vehicle owner's location. Confirmation of a satisfactory residential electrical Supply will lead to the installation of a hard-wired HPC unit, this will expedite vehicle charging at the most efficient rate. The HPC can supply available current up to a maximum of 80 amps and incorporates electronic systems that communicate with the vehicle control systems to indicate the maximum available current so that the vehicle can determine the amount and rate of charge required. But the current standard on-board charger is limited to 48A. So the charging duration is 8.5 hrs. at the rate of 48 Amps.

Standard - Charging at rates lower than or equal to 32A can also be achieved via a mobile connector. The universal mobile connector is included as standard in the purchase of every Model Y and is an individual cable that connects the vehicle to any available domestic power outlet and can deliver current to a maximum of 32 Amps. The Mobile Connector incorporates similar electronic circuitry as the HPC to communicate with the vehicle and manage the charging process. The charging duration is 12 hrs. at the rate of 32 Amps.

The vehicle is also capable of accepting DC current up to 525A from an off-board charger (Supercharger).

08.08.01 Proper recharging procedures

The charging system adjusts automatically to the available AC line voltage, frequency and current, within limits. The charging system in the vehicle works in conjunction with either of the three external charging stations; the permanently installed HPC, the permanently installed supercharger or the portable Mobile Connector.

Anytime the EV Inlet door is opened, the vehicle will prepare to enter CHARGE state. Once the user connects either supply cable to the vehicle, the charging system signals to the vehicle that it is ready to deliver the charge. The vehicle locks the cable onto the vehicle and then indicates that it is ready to accept energy and charging will commence. Failure of any of these steps will result in fault condition and lack of **full charging capability**. Vehicle could still charge on low power if handle lock is not engaged.

Prepare to charge state



Low Power Charging Indication



High Power Charging Indication



If the battery temperature is near or below freezing temperatures, normal charging will not occur. The vehicle will identify this condition and will begin heating the battery coolant and circulating the coolant to raise the battery temperature to enable charge. When the pack temperature rises to a temperature within the allowable charging range, heating will reduce or stop and charging will commence.

08.08.02 Power requirements necessary to recharge vehicle

Model Y comes with one on-board charger is capable of a maximum of 48A on 208V or 240V outlets and 12A on 120V outlets.

08.10 OTHER UNIQUE FEATURES (i.e. solar panels)

Not applicable; vehicle is not equipped with any such features.

08.11 DESCRIPTION OF WARNING SYSTEM(S) FOR MAINTENANCE / MALFUNCTION

The Tesla Model Y is equipped with a tell-tale lamp located in the instrument pack to indicate any malfunctions through user alerts e.g. “battery failure” with battery symbol.

The tell-tale is complemented by more detailed information exhibited on the Center Display. An additional driver aid which indicates the nature of the malfunction as well as a wide range of additional vehicle data, such as when maintenance is needed.

08.11.01 Cut-off terminal voltages for prevention of battery damage

The control electronics inside of the Drive Unit and Charger are programmed not to allow the unit to drive the voltage of the battery above or below hard voltage limits. If the battery pack is unable to achieve a desired response from these systems and the voltage reaches above or below a set limit, the two switches inside the battery pack will open, disabling the entire high voltage system in the car.

8.12 DESCRIPTION OF DYNO MODE

Tesla, Inc. implemented user interface (UI) features that enable access to our “Dyno Mode” for all users. This feature is required to be enabled to maintain representative driving controls while testing on a chassis dynamometer.

In order to preserve the proper driving functionality and behavior, Dyno Mode executes the following features:

- Disable Stability Control to ensure no false interaction with the dyno.
- Disable Traction Control to ensure no false interaction with the dyno.
- Disable Active Drive Line Damping to avoid inducing oscillations in the dyno.
- Force the torque split to be as it would be under normal straight-line driving conditions
- Disable Brake Disk Wipe
- Disable vehicle movement plausibility monitor to ensure the availability of autonomous brake actuation on Dyno.

When the Stability Control and Traction Control systems become faulted, as is the case on a dynamometer where driving is detected but movement is not, regenerative braking is disabled so that unintended braking torque does not lead to loss of traction or control on low friction surfaces. Disabling Stability Control and Traction Control prevents those systems from disrupting regenerative braking behavior, maintaining the most representative driving energy consumption.

Dyno Mode can be activated by the user, according to the steps in the driver's guide.

Dyno Mode can be deactivated by the user by pressing the “Power Off” button within the Safety & Security tab of the UI.

8.13 DESCRIPTION OF COASTDOWN MODE

Tesla does not use any special mode for coastdown testing.

09.00 RESERVED

10.00 RESERVED

11.00 STARTING AND SHIFTING SCHEDULES

11.01 Starting

The Model Y does not have a traditional starter switch and instead has a smart entry system for greater safety and customer convenience. The smart entry system comprises of an authenticated phone (using Bluetooth Low Energy or internet connectivity) or key card (using Near Field Communication), a weight sensor embedded into the driver seat, and the brake pedal.

ENTERING

An authenticated phone can be used to passively unlock the car when connected, in range and a door handle is pulled or trunk release button is pressed.

The Tesla mobile app on an authenticated phone can be used to manually unlock the vehicle.

A key card can be used to unlock the car by scanning the card on the b-pillar.

After a successful key card scan on the b-pillar or center console:

- a. Vehicle is authorized to Drive within a reasonable time period. Time period is extended based on additional user interaction which include: driver opening their door, driver sitting down, driver closing their door while seated.
- b. If time period is exceeded, upon brake press, instruct driver to rescan key card on the center console to reauthorize Drive.
- c. Accessory Mode functions will be available without the user having to rescan their key card.

LOCKING

An authenticated phone can be used to passively lock the car when the phone is disconnected or moved away from the vehicle. This passive function can be disabled in controls on the touchscreen.

The Tesla mobile app on an authenticated phone can be used to manually lock the vehicle.

A key card can be used to lock the car by scanning the card on the b-pillar. There is no passive locking with key cards (car does not auto lock).

Note: Using a key card to lock/unlock will be equivalent to an active lock/unlock—i.e., clicking on the key fob to lock and double-clicking to unlock.

STARTING

If successful interaction between authenticated phone or the key card and vehicle controller occurs, the system deactivates the immobilizer. Immobilizer deactivation only happens after 2 conditions are met below. The vehicle then enters accessory mode analogous to a “ACC” position on a conventional IC engine. In this mode, low voltage (12V) is supplied to the vehicle allowing operation of the radio and other accessories connected to the accessory rail.

High Voltage (HV) necessary to enable vehicle propulsion is enabled only by the closing of the contactors, which can only be triggered when the following conditions are both satisfied,

1. Authenticated phone or key card is authorized and key code is validated AND
2. Brake pedal is depressed.

By requiring brake pedal activation, along with the appropriate key code, this system ensures the safety of vehicle occupants by not allowing self mobility of the vehicle without the driver providing proper control inputs (i.e., service brake activation) and appropriate driver authorization (i.e., presence of the key code). If either the service brake is not activated or the key code not present, the vehicle controller will not close the contactors and self-mobility is not possible.

If the brake pedal is depressed and the proper key code present, the drive rail will activate (immobilizer deactivates) and allows the vehicle to be shifted out of Park.

11.02 SHIFTING

Not applicable – the vehicle has a single-speed transmission.

12:00 -16:00 RESERVED

17:00 CALIFORNIA REQUIREMENTS

17:01 Statement of Compliance

17.01.01 General Statement

The production vehicles which are subject to registration or sale in the State of California will be, in all material respects, substantially the same in construction as test vehicles which are certified by the California Air Research Board; and will meet all the applicable emissions standards which are promulgated by the California Air Research Board in accordance with Section 43101 of the Health and Safety Code.

Tesla attests that the vehicle emission control label complies with the label durability requirements of the "California Motor Vehicle Emission Control and Smog Index Label Specifications", Title 13, CCR, Section 1965.

17.01.02 Drivability statement

This statement is no longer included in the California Exhaust Emission Standards and Test Procedures for 2001 and Subsequent Model Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles (as of January 01 2006); as was the case in previous versions.

17.02 Supplemental data and certification review sheets

See attached

17.03 Engineering evaluation of zero evaporative emissions under any and all operating conditions (for vehicles equipped with fuel-fired heater only)

Not applicable; vehicle is not equipped with fuel-fired heater.

17.04 Credits

17.04.01 Description of multi-manufacturer arrangements

Not applicable; Tesla has no such agreements in place.

17.05 VEHICLE SAFETY

17.05.01 All Information for safe operation of vehicle

Tesla owner's manual is available at website <https://www.tesla.com/ownersmanual>

17.05.02 Information on safe handling of battery system

HANDLING

Do not short circuit, puncture, incinerate, crush, immerse, force discharge, or expose the battery pack to temperatures outside the specified maximum storage temperature range of -20°C to 60°C.

The battery pack has a nominal operating voltage of 400 VDC. The battery pack is sealed in a rigid metal case and its exterior is isolated from high voltage. Handling the battery pack is electrically safe provided the enclosure remains closed.

The battery pack contains hermetically sealed lithium ion cells that contain a number of chemicals and materials of construction. Risk of exposure to electrode materials and Liquid electrolyte will only occur in cases of mechanical or thermal abuse of the battery Pack.

STORAGE

Do not store the battery pack in a manner that allows terminals to short circuit. Do not place near heating equipment, nor expose to direct sunlight for long periods. The battery pack should only be stored in approved packaging and stacked no more than two (2) packages high.

To maintain service life, the battery pack should be stored at a state of charge (SOC) of 15 to 50%.

TRANSPORT

Lithium ion batteries are regulated as Class 9 Miscellaneous dangerous goods (also known as “hazardous materials”) pursuant to the International Civil Aviation Organization.

(ICAO) Technical Instructions for the Safe Transport of Dangerous Goods by Air, International Air Transport Association (IATA) Dangerous Goods Regulations, the International Maritime Dangerous Goods (IMDG) Code, European Agreements concerning the International Carriage of Dangerous Goods by Rail (RID) and Road (ADR), and applicable national regulations such as the USA’s hazardous materials regulations (see 49 CFR 173.185). These regulations contain very specific packaging, labelling, marking, and documentation requirements. The regulations also require that individuals involved in the preparation of dangerous goods for transport be trained on how to properly package, label, mark and prepare shipping documents.

17.05.03 Description of emergency procedures

HIGH VOLTAGE EXPOSURE

If one of the Tesla products has been visibly damaged or its enclosure compromised, then practice appropriate high voltage preventative measures until the danger has been assessed (and dissipated if necessary).

FIREFIGHTING MEASURES

If a fire or explosion occurs when the battery pack is charging, shut off power to the charger. In case of burning lithium ion fires, flood the area with water. The water may not extinguish them, but will cool the adjacent batteries and control the spread of the fire. CO₂, dry chemical and foam extinguishers are preferred for small fires, but also may not extinguish burning lithium ion batteries. Burning batteries will burn themselves out. Virtually all fires involving lithium ion batteries can be controlled with water. When water is used, however, hydrogen gas may be a by-product which can form an explosive mixture with air. LITH-X (powdered graphite) or copper powder fire extinguishers, sand, dry ground dolomite or soda ash may also be used. These materials act as smothering agents.

Damaged or opened cells or batteries can result in rapid heating (due to exothermic reaction of constituent materials) and the release of flammable vapors. Water (and other items listed above) disperses heat when applied in sufficient quantity to a fire. Extended heat exposure can lead to ignition of adjacent cells with a potential complete envelopment of the battery pack if not cooled. An extinguished lithium ion battery fire can re-ignite due to the exothermic reaction of constituent materials from broken or damaged cells. To avoid this, remove sources of ignition and cool the burned mass by flooding with (or immersing in) water. Fire-fighters should wear self-contained breathing apparatus. Cells or batteries may flame or leak potentially hazardous organic vapors if exposed to excessive heat, fire or over voltage conditions. These vapors include HF, oxides of carbon, aluminum, lithium, copper, and cobalt. Additionally, volatile phosphorus pentafluoride may form at temperatures above 230° Fahrenheit. Never cut into the sealed battery pack enclosure due to the high voltage and electrocution risks.

If a decision is made to fight a battery fire aggressively, then large amounts of water should be applied from a safe distance with the intent of flooding the battery pack enclosure as completely as possible. Alternatively, if a decision is made to fight a battery fire defensively, then the fire crew should pull back a safe distance and allow the battery to burn itself out. Fire crews may choose to utilize a water stream or fog pattern to protect exposures or control the path of smoke.

FIRST AID MEASURES

Under normal conditions of use, the constituent battery cells are hermetically sealed. Contents of an open (broken) constituent battery cell can cause skin irritation and/or chemical burns. If materials from a ruptured or otherwise damaged cell or battery contact skin, flush immediately with water and wash affected area with soap and water. For eye contact, flush with significant amounts of water for 15 minutes and see physician at once. Avoid inhaling any vented gases. If a chemical burn occurs or if irritation persists, seek medical assistance. Seek immediate medical assistance if an electrical shock or electrocution has occurred (or is suspected).

17.06 Description of fuel-fired heater / fuel tank evaporative system

Not applicable; vehicle is not equipped with fuel-fired heater.

3.03 Vehicle Configuration and sub-configurations

Make Carline Type Test Group Final Drive ratio Emission Control Exhaust Evap Model Type Basic Engine code (F/R) Transmission Type / Code Vehicle ID tested	Tesla Model Y Battery Electric Vehicle RTSLV00.0L2Y 1 NA (BEV) NA (BEV) NA (BEV) Model Y Long Range AWD L2Y AV/1 YD224-922405
Vehicle Configuration #	0
Sub configuration # Gross Vehicle Weight (lbs) 33% Curb Mass (lbs) Loaded Vehicle Weight (lbs) Equivalent Test Weight (lbs) Wheel / Tire Target Road Load A lbf B lbf/mph C lbf/mph^2 Road Load HP @ 50mph	0 5223 4363 4663 4750 255/45 R19 38.35 0.0677 0.0171 11.27
Sub configuration # Gross Vehicle Weight (lbs) 33% Curb Mass (lbs) Loaded Vehicle Weight (lbs) Equivalent Test Weight (lbs) Wheel / Tire Target Road Load A lbf B lbf/mph C lbf/mph^2 Road Load HP @ 50mph	1 5223 4363 4663 4750 255/40 R20 44.78 0.1046 0.0171 12.37

Fuel Economy Data Vehicle (FEDV) Selection Justification – FEDV curb mass vehicle accounts for options that have a greater than 33% take rate and highest sold wheel/tire combination that collectively represents a vehicle configuration / sub configuration that has the largest sales volume within that Model Type. Tesla affirms that the road load power, and the target coefficients are those that are appropriate for the ETW of the vehicle.

3.03 Vehicle Configuration and sub-configurations

Make Carline Type Test Group Final Drive ratio Emission Control Exhaust Evap Model Type Basic Engine code (F/R) Transmission Type / Code Vehicle ID tested	Tesla Model Y Battery Electric Vehicle RTSLV00.0L2Y 1 NA (BEV) NA (BEV) NA (BEV) Model Y Performance AWD L2Y AV/1 YD224-970022
Vehicle Configuration #	0
Sub configuration # Gross Vehicle Weight (lbs) 33% Curb Mass (lbs) Loaded Vehicle Weight (lbs) Equivalent Test Weight (lbs) Wheel / Tire Target Road Load A lbf B lbf/mph C lbf/mph^2 Road Load HP @ 50mph	0 5251 4398 4698 4750 255/35 R21 (FT) 275/35 R21 (RR) 39.41 0.2207 0.0169 12.36
Sub configuration # Gross Vehicle Weight (lbs) 33% Curb Mass (lbs) Loaded Vehicle Weight (lbs) Equivalent Test Weight (lbs) Wheel / Tire Target Road Load A lbf B lbf/mph C lbf/mph^2 Road Load HP @ 50mph	1 5251 4398 4698 4750 255/35 R21 (FT) 275/35 R21 (RR) 38.26 0.1780 0.0194 12.76

21" Hankooks (sub configuration #0) are the highest-take rate tire for range testing. 21" Michelins (sub configuration #1) are range negative compared to the Hankooks. Fuel Economy Data Vehicle (FEDV) Selection Justification – FEDV curb mass vehicle accounts for options that have a greater than 33% take rate and highest sold wheel/tire combination that collectively represents a vehicle configuration / sub configuration that has the largest sales volume within that Model Type. Tesla affirms that the road load power, and the target coefficients are those that are appropriate for the ETW of the vehicle.

Certification Summary Information Report

Manufacturer	Tesla, Inc.	Manufacturer Code	TSL
Test Group	RTSLV00.0L2Y	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	03/04/2024 01:30:39 PM
Model Year	2024		

Test Group Information

CSI Type	Running Change	Running Change Reference Number	0
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	LDV
Federal Clean Fuel Vehicle	Yes	Federal Clean Fuel Vehicle Standard	ZEV
Federal Clean Fuel Vehicle ILEV	Yes	California Partial Zero Emissions Vehicle Indicator	--
Durability Group Name	RTSLEEVNNL2Y	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	01/01/2024	CAP2000 Conditional Certificate?	N/A
Independent Commercial Importer?	--	Alternative Fuel Converter Certificate?	--
SFTP Federal Composite Compliance Identifier	Tier 3	SFTP Tier 2 Composite CO Option	--
SFTP LEV-III Composite Compliance Indicator	Yes		
OBD Compliance Type	CARB	OBD Demonstration Vehicle Test Group	RTSLV00.0L2Y
Test Group OBD Compliance Level	Full - no deficiencies	Number of Test Group OBD Deficiencies	0
OBD Deficiencies Comments	Battery Electric Vehicle - No OBD requirements		
Mfr Test Group Comments	--		
Mfr Exhaust / Evap Standards Comments	--		

Certification Summary Information Report

Test Group		RTSLV00.0L2Y		Evaporative/Refueling Family		--				
Models Covered by this Certificate										
Carline Manufacturer	Division	Carline	Certification Region Code(s)	Drive System	Trans - Type	- # of Gears	Trans - Lockup			
Tesla, Inc.	1 - Tesla Motors	47 - Model Y Performance AWD	Federal	All Wheel Drive	Automatic	1	No			
Tesla, Inc.	1 - Tesla Motors	47 - Model Y Performance AWD	California + CAA Section 177 states	All Wheel Drive	Automatic	1	No			
Tesla, Inc.	1 - Tesla Motors	45 - Model Y Long Range AWD	Federal	All Wheel Drive	Automatic	1	No			
Tesla, Inc.	1 - Tesla Motors	45 - Model Y Long Range AWD	California + CAA Section 177 states	All Wheel Drive	Automatic	1	No			
Engine Description										
Hybrid Type		--		Hybrid Description		--				
Engine Type		--		Mfr Engine Description		--				
Engine Block Arrangement		--		Mfr Engine Block Arrangement Description		--				
Camless Valvetrain Indicator		--		Oil Viscosity/Classification		--				
Number of Cylinders/Rotors		--		Mechanically Variable Compression Ratio Indicator		--				
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	RTSL10084896		RTSL10084897							
Electricity	RTSL10083662		RTSL10083663							

Certification Summary Information Report

Test Group	RTSLV00.0L2Y	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	355	Battery Energy Capacity	235
Battery Specific Energy	175	Battery Charger Type	On-Board
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	No
Mfr Regenerative Braking Description	--		
Drive Motor(s)/Generator(s)	4		
Motor/Generator Type 1	AC Induction	Rated Motor/Generator Power	91
Motor/Generator Type 2	AC 3 PHASE PERMANENT MAGNET	Rated Motor/Generator Power	200
Motor/Generator Type 3	AC Induction	Rated Motor/Generator Power	135
Motor/Generator Type 4	AC 3 PHASE PERMANENT MAGNET	Rated Motor/Generator Power	202
Mfr Fuel Cell Description	--		
Fuel Cell On-Board H2 Storage Capacity (kg)	--	Usable H2 Fill Capacity (kg)	--
Mfr Hybrid Electric/ Electric Vehicle Comments	2024 MY Model Y AWD Carline; Base Front - 91 kW; Rear - 200 kW Perf Front - 135 kW; Rear - 202 kW		

Certification Summary Information Report

Test Group	RTSLV00.0L2Y	Evaporative/Refueling Family	--						
Emission Data Vehicle Information									
Vehicle ID / Configuration	YD224-922405 / 0	Manufacturer Vehicle Configuration Number	0						
Original Test Group Name	RTSLV00.0L2Y	Original Evaporative/Refueling Family	--						
Original Test Vehicle Model Year	2024								
Vehicle Model									
Represented Test Vehicle Make	Tesla	Represented Test Vehicle Model	Model Y Long Range AWD						
Leak Family Details									
Leak Family Identifier	--	Leak Family Name	--						
Drive Sources and Fuel System Details									
	<table><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 - Initial system miles) * Correction factor								
Odometer Correction Units	Miles								
Engine Code	L2Y	Rated Horsepower	390						
Displacement (liters)	0.001								
Air Aspiration Method	Naturally Aspirated	Air Aspiration Method, if 'Other'							
Number of Air Aspiration Devices	--	Air Aspiration Device Configuration	--						
Charge Air Cooler Type	--	Drive Mode While Testing	All Wheel Drive						
Shift Indicator Light Usage	Not equipped	Aged Emission Components	4,000 (mi)						
Curb Weight (lbs)	4363	Equivalent Test Weight (pounds)	4750						
GVWR (lbs)	5223	N/V Ratio	108						
Axle Ratio	1								
Transmission Type	Automatic	# of Transmission Gears	1						
Transmission Lockup	No	Creep Gear	No						
Dynamometer Coefficients:									
	Target Coefficients		Set Coefficients						
Coefficient Category	A (lbf)	B (lbf/mph)	C (lbf/mph**2)	A (lbf)	B (lbf/mph)	C (lbf/mph**2)	EPA Calculated Total Road Load Horse Power for City/Highway/Evap Coefficients		
City/Highway/Evap	38.35	0.0677	0.0171	-1.94	0.1342	0.0139	11.3		
Emission Control Device Comments		No Emissions Control Device - Pure Electric							

Certification Summary Information Report

Test Group	RTSLV00.0L2Y	Evaporative/Refueling Family	--																								
Manufacturer Test Vehicle Comments	This is 2024 Model Y Long Range AWD; Front Motor Power - 91 kW; Rear Motor Power - 200 kW;																										
Test #	RTSL10083665	Test Procedure	2 - CVS 75 and later (w/o can. load)																								
Exhaust Test # for this Evap Test	--	Test Fuel Type	62 - Electricity																								
Test Date	12/09/2023	Fuel	Electricity																								
Fuel Batch ID	--	Fuel Calibration Number	--																								
Vehicle Class	LDV/Passenger Car	DF Type	EPA Assigned																								
Verify Test Lab ID	Tesla Kato																										
E10 Evaporative Test Measurement Method	--																										
Test Start Odometer Reading	2853	Odometer Units	M																								
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--																								
State of Charge Delta	--																										
Drive Cycle Speed Tolerance Criteria	Used Part 86 (+/- 2 mph, +/- 1 sec)	Road Speed Fan Usage	Yes																								
Test Results																											
<table><tr><td>Test Result Name</td><td>Unrounded Test Result</td><td>Verify Calculated FE Equivalent Value (kilowatt-hour per 100 miles)</td></tr><tr><td>CO (Carbon Monoxide)</td><td>0</td><td>--</td></tr><tr><td>DT-ASCR (Drive Trace Absolute Speed Change Rating)</td><td>0.0358</td><td>--</td></tr><tr><td>DT-EER (Drive Trace Energy Economy Rating)</td><td>-0.3427</td><td>--</td></tr><tr><td>DT-IWRR (Drive Trace Inertia Work Ratio Rating)</td><td>0.4407</td><td>--</td></tr><tr><td>MFR FE (Manufacturer Fuel Economy)</td><td>18.0473</td><td>186.7315332</td></tr><tr><td>NOX (Nitrogen Oxide)</td><td>0</td><td>--</td></tr><tr><td>NMOG (Non-methane organic gases)</td><td>0</td><td>--</td></tr></table>				Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (kilowatt-hour per 100 miles)	CO (Carbon Monoxide)	0	--	DT-ASCR (Drive Trace Absolute Speed Change Rating)	0.0358	--	DT-EER (Drive Trace Energy Economy Rating)	-0.3427	--	DT-IWRR (Drive Trace Inertia Work Ratio Rating)	0.4407	--	MFR FE (Manufacturer Fuel Economy)	18.0473	186.7315332	NOX (Nitrogen Oxide)	0	--	NMOG (Non-methane organic gases)	0	--
Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (kilowatt-hour per 100 miles)																									
CO (Carbon Monoxide)	0	--																									
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MFR FE (Manufacturer Fuel Economy)	18.0473	186.7315332																									
NOX (Nitrogen Oxide)	0	--																									
NMOG (Non-methane organic gases)	0	--																									
<table><tr><td>Test Result Name</td><td>Unrounded Test Result</td><td>Verify Calculated CREE/OPT-CREE</td></tr><tr><td>Carbon-Related Exhaust Emissions</td><td>0</td><td>0</td></tr></table>				Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE	Carbon-Related Exhaust Emissions	0	0																		
Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE																									
Carbon-Related Exhaust Emissions	0	0																									
Manufacturer Test Comments																											
Internal Test results (CVS-75 UDDS Ambient) for MY2024 Model Y Long Range AWD. AC wh/mi @ 50 % SOC - Bag 1 - 199.0; Bag 2- 169.1; Bag 3 - 194.1; Bag 4 - 167.9; Test Start Odometer Reading 2853 Test Start Propulsion System Mileage 2853 DC energy consumption Phase 1 = 199.0 Wh/mi; Phase 2 = 169.1 Wh/mi; Phase 3 = 194.1 Wh/mi;																											
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	RTSLV00.0L2Y	Evaporative/Refueling Family	--																					
Test #	RTSL10083666	Test Procedure	3 - HWFE																					
Exhaust Test # for this Evap Test	--	Test Fuel Type	62 - Electricity																					
Test Date	12/09/2023	Fuel	N/A																					
Fuel Batch ID	--	Fuel Calibration Number	--																					
Vehicle Class	N/A	DF Type	EPA Assigned																					
Verify Test Lab ID	Tesla Kato																							
E10 Evaporative Test Measurement Method	--																							
Test Start Odometer Reading	2853	Odometer Units	M																					
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--																					
State of Charge Delta	--																							
Drive Cycle Speed Tolerance Criteria	Used Part 86 (+/- 2 mph, +/- 1 sec)	Road Speed Fan Usage	Yes																					
Test Results																								
<table><tr><th>Test Result Name</th><th>Unrounded Test Result</th><th>Verify Calculated FE Equivalent Value (kilowatt-hour per 100 miles)</th></tr><tr><td>DT-ASCR (Drive Trace Absolute Speed Change Rating)</td><td>5.3592</td><td>--</td></tr><tr><td>DT-EER (Drive Trace Energy Economy Rating)</td><td>0.5999</td><td>--</td></tr><tr><td>DT-IWRR (Drive Trace Inertia Work Ratio Rating)</td><td>6.8966</td><td>--</td></tr><tr><td>MFR FE (Manufacturer Fuel Economy)</td><td>19.1837</td><td>175.6699698</td></tr><tr><td>NOX (Nitrogen Oxide)</td><td>0</td><td>--</td></tr><tr><td>NMOG (Non-methane organic gases)</td><td>0</td><td>--</td></tr></table>				Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (kilowatt-hour per 100 miles)	DT-ASCR (Drive Trace Absolute Speed Change Rating)	5.3592	--	DT-EER (Drive Trace Energy Economy Rating)	0.5999	--	DT-IWRR (Drive Trace Inertia Work Ratio Rating)	6.8966	--	MFR FE (Manufacturer Fuel Economy)	19.1837	175.6699698	NOX (Nitrogen Oxide)	0	--	NMOG (Non-methane organic gases)	0	--
Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (kilowatt-hour per 100 miles)																						
DT-ASCR (Drive Trace Absolute Speed Change Rating)	5.3592	--																						
DT-EER (Drive Trace Energy Economy Rating)	0.5999	--																						
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	6.8966	--																						
MFR FE (Manufacturer Fuel Economy)	19.1837	175.6699698																						
NOX (Nitrogen Oxide)	0	--																						
NMOG (Non-methane organic gases)	0	--																						
<table><tr><th>Test Result Name</th><th>Unrounded Test Result</th><th>Verify Calculated CREE/OPT-CREE</th></tr><tr><td>Carbon-Related Exhaust Emissions</td><td>0</td><td>0</td></tr></table>				Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE	Carbon-Related Exhaust Emissions	0	0															
Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE																						
Carbon-Related Exhaust Emissions	0	0																						
Manufacturer Test Comments	Internal Test results (HWY 3) for MY2024 Model Y Long Range AWD. DC energy consumption = 191.8 Wh/mi;																							

Certification Summary Information Report

Test Group	RTSLV00.0L2Y	Evaporative/Refueling Family	--
Test #	RTSL10083673	Test Procedure	90 - US06
Exhaust Test # for this Evap Test	--	Test Fuel Type	62 - Electricity
Test Date	12/09/2023	Fuel	N/A
Fuel Batch ID	--	Fuel Calibration Number	--
Vehicle Class	N/A	DF Type	EPA Assigned
Verify Test Lab ID	Tesla Kato		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	2853	Odometer Units	M
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--
State of Charge Delta	--		
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)
CO (Carbon Monoxide)	0	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-2.9827	--
DT-EER (Drive Trace Energy Economy Rating)	-2.3517	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-5.4242	--
MFR FE (Manufacturer Fuel Economy)	27.1773	124.0005446
NOX (Nitrogen Oxide)	0	--
NMOG (Non-methane organic gases)	0	--

Manufacturer Test Comments

Internal Test results (US 06) for MY2024 Model Y Long Range AWD. End SOC- 2069Wh DC energy consumption Phase 1 (Highway) = 254.9 Wh/mi; Phase 2 (City) = 271.8 Wh/mi

Certification Summary Information Report

Test Group	RTSLV00.0L2Y	Evaporative/Refueling Family	--
Test #	RTSL10083676	Test Procedure	95 - SC03
Exhaust Test # for this Evap Test	--	Test Fuel Type	62 - Electricity
Test Date	12/09/2023	Fuel	N/A
Fuel Batch ID	--	Fuel Calibration Number	--
Vehicle Class	N/A	DF Type	EPA Assigned
Verify Test Lab ID	Tesla Kato		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	2853	Odometer Units	M
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--
State of Charge Delta	--		
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)
CO (Carbon Monoxide)	0	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	0.4522	--
DT-EER (Drive Trace Energy Economy Rating)	-0.3568	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-0.1181	--
MFR FE (Manufacturer Fuel Economy)	26.7754	125.8617985
NOX (Nitrogen Oxide)	0	--
NMOG (Non-methane organic gases)	0	--

Manufacturer Test Comments Internal Test results (SC 03) for MY2024 Model Y Long Range AWD. End SOC- 958Wh DC energy consumption = 267.8 Wh/mi

Certification Summary Information Report

Test Group	RTSLV00.0L2Y	Evaporative/Refueling Family	--
Test #	RTSL10083662	Test Procedure	81 - Charge Depleting UDDS
Exhaust Test # for this Evap Test	--	Test Fuel Type	62 - Electricity
Test Date	12/09/2023	Fuel	Electricity
Fuel Batch ID	--	Fuel Calibration Number	--
Vehicle Class	LDV/Passenger Car	DF Type	EPA Assigned
Verify Test Lab ID	Tesla Kato		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	2853	Odometer Units	M
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--
State of Charge Delta	--		
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	208	Recharge Event Energy (kiloWatt-hours)	88.905
Charge Depleting Range (Calculated miles)	437	Charge Depleting Range (Actual miles)	437
Charge Depleting Range Highway (Calculated miles)	--	Derived 5-Cycle Coefficient Model Year	--
All Electric Range Unadjusted (miles)	--	Equivalent All Electric Range (miles)	437
Number of Charge Depleting Bags/Phases Conducted	4	Transition Bag/Phase Number	--
Charge Depleting Bag/Phase			
Charge Depleting Bag/Phase #	Test Result/Emission Name	Unrounded Test Result	
1	Actual Distance Driven (miles)	436.99	
2	Carbon Monoxide	0	
3	Carbon dioxide	0	
4	Carbon-Related Exhaust Emissions	0	
5	Drive Trace Absolute Speed Change Rating	1.1021	
6	Drive Trace Energy Economy Rating	-0.7972	
7	Drive Trace Inertia Work Ratio Rating	2.0596	
8	Integrated DC KW-HRS	225.46	
9	Manufacturer Fuel Economy	165.67	
10	Nitrogen Oxide	0	
11	Non-methane organic gases	0	
12	Non-methane organic gases plus Nitrogen Oxides	999.999	
13	Particulate Matter	0	
14	System End State of Charge Watt-hours	78.865	
15	System Start State of Charge Watt-hours	0	

Certification Summary Information Report

Test Group			RTSLV00.0L2Y			Evaporative/Refueling Family			--				
Manufacturer Test Comments			Internal Test results for MY2024 Model Y Long Range AWD. Range determined by using SAE J1634 Multi-cycle test procedure. END-SOC 78865 wh (system gave error limited to 4 digits)ACT-Distance & KW-HRS are dummy values. MCT dc wh/mi is attached with EPA application. Added NMOG Test results. Cycle Energy(Wh) Distance(mi) ECdc_cyc Kuwgt Kwgt Recharge UDDS1 1520 7.450 204.03 51.01 3.93 AC WattHrs UDDS2 1395 7.440 187.47 46.87 61.29 88904.6 UDDS3 1323 7.450 177.53 44.38 58.04 UDDS4 1304 7.450 175.03 43.76 57.22 HWY1 2045 10.260 199.35 99.67 1976 10.250 192.81 96.41 SS1 61783 251.360 245.80 SS2 7518 31.060 242.05 TOTAL 78864.60 332.720 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 423.97 209.70 UDDSw 436.99 203.45 165.6677 20.3449 HWY 402.21 221.04 152.4822 22.1042										
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	
Fed	150,000 miles	Federal Tier 3 Bin 0	CREE	0	--	--	--	0	--	0	--	--	
CA	150,000 miles	California ZEV	CO	0.0	--	--	--	0	--	0	0	Pass	
CA	150,000 miles	California ZEV	CREE	0	--	--	--	0	--	0	--	--	

Certification Summary Information Report

Test Group	RTSLV00.0L2Y	Evaporative/Refueling Family	--
Test #	RTSL10083663	Test Procedure	84 - Charge Depleting Highway
Exhaust Test # for this Evap Test	--	Test Fuel Type	62 - Electricity
Test Date	12/09/2023	Fuel	Electricity
Fuel Batch ID	--	Fuel Calibration Number	--
Vehicle Class	LDV/Passenger Car	DF Type	EPA Assigned
Verify Test Lab ID	Tesla Kato		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	2853	Odometer Units	M
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--
State of Charge Delta	--		
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	208	Recharge Event Energy (kiloWatt-hours)	88.905
Charge Depleting Range (Calculated miles)	402	Charge Depleting Range (Actual miles)	402
Charge Depleting Range Highway (Calculated miles)	--	Derived 5-Cycle Coefficient Model Year	--
All Electric Range Unadjusted (miles)	--	Equivalent All Electric Range (miles)	402
Number of Charge Depleting Bags/Phases Conducted	2	Transition Bag/Phase Number	--
Charge Depleting Bag/Phase			
Charge Depleting Bag/Phase #	Test Result/Emission Name	Unrounded Test Result	
1	Actual Distance Driven (miles)	402.21	
2	Carbon Monoxide	0	
3	Carbon dioxide	0	
4	Carbon-Related Exhaust Emissions	0	
5	Drive Trace Absolute Speed Change Rating	4.2314	
6	Drive Trace Energy Economy Rating	0.7907	
7	Drive Trace Inertia Work Ratio Rating	5.3597	
8	Integrated DC KW-HRS	0	
9	Manufacturer Fuel Economy	152.48	
10	Nitrogen Oxide	0	
11	Non-methane organic gases	0	
12	Non-methane organic gases plus Nitrogen Oxides	999.999	
13	Particulate Matter	0	
14	System End State of Charge Watt-hours	78.865	
15	System Start State of Charge Watt-hours	0	

Certification Summary Information Report

Test Group		RTSLV00.0L2Y			Evaporative/Refueling Family				--			
Manufacturer Test Comments		Internal Test results for MY2024 Model Y Long Range AWD. Range determined by using SAE J1634 Multi-cycle test procedure. END-SOC - 78865 wh (System error limited to 4 digits). MCT dc wh/mi is attached with application. DC energy consumption HWFE1 = 199.35 Wh/mi; HWFE2 = 192.81 Wh/mi; HWFE average = 196.08 Wh/mi KW-HRS are dummy values.										
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
Fed	150,000 miles	Federal Tier 3 Bin 0	CREE	0	--	--	--	0	--	0	--	--
CA	150,000 miles	California ZEV	CO	0.0	--	--	--	0	--	0	0	Pass
CA	150,000 miles	California ZEV	CREE	0	--	--	--	0	--	0	--	--

Certification Summary Information Report

Test Group	RTSLV00.0L2Y	Evaporative/Refueling Family	--
Test #	RTSL10083670	Test Procedure	86 - Charge Depleting 20 Degree F FTP
Exhaust Test # for this Evap Test	--	Test Fuel Type	62 - Electricity
Test Date	12/09/2023	Fuel	N/A
Fuel Batch ID	--	Fuel Calibration Number	--
Vehicle Class	N/A	DF Type	EPA Assigned
Verify Test Lab ID	Tesla Kato		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	2853	Odometer Units	M
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--
State of Charge Delta	--		
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	208	Recharge Event Energy (kiloWatt-hours)	85.803
Charge Depleting Range (Calculated miles)	267.8	Charge Depleting Range (Actual miles)	267.8
Charge Depleting Range Highway (Calculated miles)	--	Derived 5-Cycle Coefficient Model Year	--
All Electric Range Unadjusted (miles)	--	Equivalent All Electric Range (miles)	267.8
Number of Charge Depleting Bags/Phases Conducted	36	Transition Bag/Phase Number	--
Charge Depleting Bag/Phase			
Charge Depleting Bag/Phase #	Test Result/Emission Name	Unrounded Test Result	
1	Actual Distance Driven (miles)	436.99	
2	Carbon Monoxide	0	
3	Carbon dioxide	0	
4	Carbon-Related Exhaust Emissions	0	
5	Drive Trace Absolute Speed Change Rating	1.952	
6	Drive Trace Energy Economy Rating	1.45	
7	Drive Trace Inertia Work Ratio Rating	3.258	
8	Integrated DC KW-HRS	0	
9	Manufacturer Fuel Economy	28.4213	
10	Nitrogen Oxide	0	
11	Non-methane organic gases	0	
12	Non-methane organic gases plus Nitrogen Oxides	999.999	
13	Particulate Matter	0	
14	System End State of Charge Watt-hours	76.113	
15	System Start State of Charge Watt-hours	0	

Certification Summary Information Report

Test Group	RTSLV00.0L2Y	Evaporative/Refueling Family	--
Manufacturer Test Comments	Internal Test results(Cold UDDS) for MY2024 Model Y Long Range AWD. END SOC is 76113 Wh (System error limited to 4 digits) for full discharge. DC energy consumption Phase 1 = 472.3 Wh/mi; Phase 3 = 434.3 Wh/mi; Total charge depleting energy consumption = 284.21 Wh/mi KW-HRS are dummy values		

Test Group	RTSLV00.0L2Y		Evaporative/Refueling Family	--																														
Emission Data Vehicle Information																																		
Vehicle ID / Configuration	YD224-970022 / 0		Manufacturer Vehicle Configuration Number	0																														
Original Test Group Name	RTSLV00.0L2Y		Original Evaporative/Refueling Family	--																														
Original Test Vehicle Model Year	2024																																	
Vehicle Model																																		
Represented Test Vehicle Make	Tesla		Represented Test Vehicle Model	Model Y Performance AWD																														
Leak Family Details																																		
Leak Family Identifier	--		Leak Family Name	--																														
Drive Sources and Fuel System Details																																		
<table><tr><td>Drive Source and Fuel#</td><td>Drive Source</td><td>Fuel</td></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 - Initial system miles) * Correction factor																																	
Odometer Correction Units	Miles																																	
Engine Code	L2Y		Rated Horsepower	452																														
Displacement (liters)	0.001																																	
Air Aspiration Method	Naturally Aspirated		Air Aspiration Method, if 'Other'																															
Number of Air Aspiration Devices	--		Air Aspiration Device Configuration	--																														
Charge Air Cooler Type	--		Drive Mode While Testing	All Wheel Drive																														
Shift Indicator Light Usage	Not equipped		Aged Emission Components	4,000 (mi)																														
Curb Weight (lbs)	4398		Equivalent Test Weight (pounds)	4750																														
GVWR (lbs)	5251		N/V Ratio	108																														
Axle Ratio	1																																	
Transmission Type	Automatic		# of Transmission Gears	1																														
Transmission Lockup	No		Creeper Gear	No																														
Dynamometer Coefficients:																																		
<table><tr><td colspan="4">Target Coefficients</td><td colspan="3">Set Coefficients</td><td rowspan="3">EPA Calculated Total Road Load Horse Power for City/Highway/Evap Coefficients</td></tr><tr><td>Coefficient Category</td><td>A (lbf)</td><td>B (lbf/mph)</td><td>C (lbf/mph**2)</td><td>A (lbf)</td><td>B (lbf/mph)</td><td>C (lbf/mph**2)</td></tr><tr><td>City/Highway/Evap</td><td>39.409</td><td>0.2207</td><td>0.0169</td><td>2.18</td><td>0.1212</td><td>0.015</td></tr><tr><td>Cold CO</td><td>43.35</td><td>0.24</td><td>0.02</td><td>2.4</td><td>0.13</td><td>0.02</td><td>N/A</td></tr></table>					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	39.409	0.2207	0.0169	2.18	0.1212	0.015	Cold CO	43.35	0.24	0.02	2.4	0.13	0.02	N/A
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	39.409	0.2207	0.0169	2.18	0.1212	0.015																												
Cold CO	43.35	0.24	0.02	2.4	0.13	0.02	N/A																											

Certification Summary Information Report

Test Group	RTSLV00.0L2Y	Evaporative/Refueling Family	--
Emission Control Device Comments	No Emissions Control Device - Pure Electric		
Manufacturer Test Vehicle Comments	This is MY2024 Model Y Performance AWD; Front Motor Power - 135 kW; Rear Motor Power - 202kW;		
Test #	RTSL10084616	Test Procedure	2 - CVS 75 and later (w/o can. load)
Exhaust Test # for this Evap Test	--	Test Fuel Type	62 - Electricity
Test Date	02/13/2024	Fuel	Electricity
Fuel Batch ID	--	Fuel Calibration Number	--
Vehicle Class	LDV/Passenger Car	DF Type	EPA Assigned
Verify Test Lab ID	Tesla Kato		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	2994	Odometer Units	M
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--
State of Charge Delta	--		
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)
CO (Carbon Monoxide)	0	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	2.4689	--
DT-EER (Drive Trace Energy Economy Rating)	1.7427	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	3.752	--
MFR FE (Manufacturer Fuel Economy)	18.4945	182.2433697
NOX (Nitrogen Oxide)	0	--
NMOG (Non-methane organic gases)	0	--

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

Manufacturer Test Comments

Internal Test results (CVS-75 UDDS Ambient) for MY2024 Model Y Performance AWD. Test Start Odometer Reading 2994 Test Start Propulsion System Mileage 2994 DC energy consumption Phase 1 = 214.7 Wh/mi; Phase 2 = 182.2 Wh/mi; Phase 3 = 208.9 Wh/mi;

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	RTSLV00.0L2Y	Evaporative/Refueling Family	--
Test #	RTSL10084617	Test Procedure	3 - HWFE
Exhaust Test # for this Evap Test	--	Test Fuel Type	62 - Electricity
Test Date	02/13/2024	Fuel	N/A
Fuel Batch ID	--	Fuel Calibration Number	--
Vehicle Class	N/A	DF Type	EPA Assigned
Verify Test Lab ID	Tesla Kato		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	2994	Odometer Units	M
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--
State of Charge Delta	--		
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)
DT-ASCR (Drive Trace Absolute Speed Change Rating)	5.0391	--
DT-EER (Drive Trace Energy Economy Rating)	1.0246	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	6.3145	--
MFR FE (Manufacturer Fuel Economy)	21.03	160.2710414
NOX (Nitrogen Oxide)	0	--
NMOG (Non-methane organic gases)	0	--

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

Manufacturer Test Comments Internal Test results (HWY 3) for MY2024 Model Y Performance AWD. The HFET result from the full discharge MCT is used for the 2-part and 5-part calculations.; Test Start Odometer Reading 2994 Test Start Propulsion System Mileage 2994 DC energy consumption = 210.3 Wh/mi;

Test Group	RTSLV00.0L2Y	Evaporative/Refueling Family	--
Test #	RTSL10084621	Test Procedure	90 - US06
Exhaust Test # for this Evap Test	--	Test Fuel Type	62 - Electricity
Test Date	02/13/2024	Fuel	N/A
Fuel Batch ID	--	Fuel Calibration Number	--
Vehicle Class	N/A	DF Type	EPA Assigned
Verify Test Lab ID	Tesla Kato		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	2994	Odometer Units	M
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--
State of Charge Delta	--		
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)
CO (Carbon Monoxide)	0	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	0.1324	--
DT-EER (Drive Trace Energy Economy Rating)	0.2942	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	1.4241	--
MFR FE (Manufacturer Fuel Economy)	28.55	118.056042
NOX (Nitrogen Oxide)	0	--
NMOG (Non-methane organic gases)	0	--

Manufacturer Test Comments

Internal Test results (US 06) for MY2024 Model Y Performance AWD. Test Start Odometer Reading 2994 Test Start Propulsion System Mileage 2994 DC energy consumption Phase 1 (Highway) = 277.2 Wh/mi; Phase 2 (City) = 285.5 Wh/mi

Certification Summary Information Report

Test Group	RTSLV00.0L2Y	Evaporative/Refueling Family	--
Test #	RTSL10084622	Test Procedure	95 - SC03
Exhaust Test # for this Evap Test	--	Test Fuel Type	62 - Electricity
Test Date	02/13/2024	Fuel	N/A
Fuel Batch ID	--	Fuel Calibration Number	--
Vehicle Class	N/A	DF Type	EPA Assigned
Verify Test Lab ID	Tesla Kato		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	2994	Odometer Units	M
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--
State of Charge Delta	--		
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)
CO (Carbon Monoxide)	0	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-0.108	--
DT-EER (Drive Trace Energy Economy Rating)	-0.6235	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-0.631	--
MFR FE (Manufacturer Fuel Economy)	27.61	122.075335
NOX (Nitrogen Oxide)	0	--
NMOG (Non-methane organic gases)	0	--

Manufacturer Test Comments Internal Test results (SC 03) for MY2024 Model Y Performance AWD. Test Start Odometer Reading 2994 Test Start Propulsion System Mileage 2994 DC energy consumption = 276.1 Wh/mi

Certification Summary Information Report

Test Group	RTSLV00.0L2Y	Evaporative/Refueling Family	--
Test #	RTSL10084619	Test Procedure	86 - Charge Depleting 20 Degree F FTP
Exhaust Test # for this Evap Test	--	Test Fuel Type	62 - Electricity
Test Date	02/13/2024	Fuel	N/A
Fuel Batch ID	--	Fuel Calibration Number	--
Vehicle Class	N/A	DF Type	EPA Assigned
Verify Test Lab ID	Tesla Kato		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	2994	Odometer Units	M
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--
State of Charge Delta	--		
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	208	Recharge Event Energy (kiloWatt-hours)	83.439
Charge Depleting Range (Calculated miles)	261	Charge Depleting Range (Actual miles)	261
Charge Depleting Range Highway (Calculated miles)	--	Derived 5-Cycle Coefficient Model Year	--
All Electric Range Unadjusted (miles)	--	Equivalent All Electric Range (miles)	261
Number of Charge Depleting Bags/Phases Conducted	36	Transition Bag/Phase Number	--
Charge Depleting Bag/Phase			
Charge Depleting Bag/Phase #	Test Result/Emission Name	Unrounded Test Result	
1	Actual Distance Driven (miles)	0	
2	Carbon Monoxide	0	
3	Carbon dioxide	0	
4	Carbon-Related Exhaust Emissions	0	
5	Drive Trace Absolute Speed Change Rating	2.903	
6	Drive Trace Energy Economy Rating	2.287	
7	Drive Trace Inertia Work Ratio Rating	4.703	
8	Integrated DC KW-HRS	0	
9	Manufacturer Fuel Economy	28.2778	
10	Nitrogen Oxide	0	
11	Non-methane organic gases	0	
12	Non-methane organic gases plus Nitrogen Oxides	999.999	
13	Particulate Matter	0	
14	System End State of Charge Watt-hours	73.781	
15	System Start State of Charge Watt-hours	0	

Certification Summary Information Report

Test Group	RTSLV00.0L2Y	Evaporative/Refueling Family	--
Manufacturer Test Comments	Internal Test results(Cold UDDS) for MY2024 Model Y Performance AWD. END SOC is 76769 wh (System error limited to 4 digits) for full discharge. Tesla did not use external current measurement after the full cold discharge test, since AC energy is not used in any part of the 5-cycle consumption calculation. The stated recharge energy is an estimate using the DC energy from the cold discharge test and the round trip energy efficiency from the full discharge MCT. Test Start Odometer Reading 2994 Test Start Propulsion System Mileage 2994 DC energy consumption Phase 1 = 519.3 Wh/mi; Phase 3 = 353.8 Wh/mi; Total charge depleting energy consumption = 282.78 Wh/mi		

Certification Summary Information Report

Test Group	RTSLV00.0L2Y	Evaporative/Refueling Family	--
Test #	RTSL10084896	Test Procedure	81 - Charge Depleting UDDS
Exhaust Test # for this Evap Test	--	Test Fuel Type	62 - Electricity
Test Date	02/28/2024	Fuel	Electricity
Fuel Batch ID	--	Fuel Calibration Number	--
Vehicle Class	LDV/Passenger Car	DF Type	EPA Assigned
Verify Test Lab ID	Tesla Kato		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	2994	Odometer Units	M
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--
State of Charge Delta	--		
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	208	Recharge Event Energy (kiloWatt-hours)	89.456
Charge Depleting Range (Calculated miles)	417	Charge Depleting Range (Actual miles)	417
Charge Depleting Range Highway (Calculated miles)	--	Derived 5-Cycle Coefficient Model Year	--
All Electric Range Unadjusted (miles)	--	Equivalent All Electric Range (miles)	417
Number of Charge Depleting Bags/Phases Conducted	4	Transition Bag/Phase Number	--
Charge Depleting Bag/Phase			
Charge Depleting Bag/Phase #	Test Result/Emission Name	Unrounded Test Result	
1	Actual Distance Driven (miles)	0	
2	Carbon Monoxide	0	
3	Carbon dioxide	0	
4	Carbon-Related Exhaust Emissions	0	
5	Drive Trace Absolute Speed Change Rating	1.3704	
6	Drive Trace Energy Economy Rating	1.0903	
7	Drive Trace Inertia Work Ratio Rating	2.1258	
8	Integrated DC KW-HRS	0	
9	Manufacturer Fuel Economy	157.21	
10	Nitrogen Oxide	0	
11	Non-methane organic gases	0	
12	Non-methane organic gases plus Nitrogen Oxides	999.999	
13	Particulate Matter	0	
14	System End State of Charge Watt-hours	78.946	
15	System Start State of Charge Watt-hours	0	

Certification Summary Information Report

Test Group		RTSLV00.0L2Y			Evaporative/Refueling Family				--			
Manufacturer Test Comments				Internal Test results for MY2024 Model Y Performance AWD. Range determined by using SAE J1634 Multi-cycle test procedure. END-SOC 78946 wh (system gave error limited to 4 digits). MCT dc wh/mi is attached with EPA application. Added NMOG Test results. Test Start Odometer Reading 2994 Test Start Propulsion System Mileage 2994 DC energy consumption UDDS1 = 207.03 Wh/mi; UDDS2 = 192.94 Wh/mi; UDDS3 = 187.05 Wh/mi; UDDS4 = 186.56 Wh/mi; UDDS weighted = 189.20 Wh/mi; UDDS1 DC discharge energy = 1536 Wh; MCT UBE energy = 78946 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	CO	0.0	--	--	--	0	--	0	0	Pass
Fed	150,000 miles	Federal Tier 3 Bin 0	CREE	0	--	--	--	0	--	0	--	--
CA	150,000 miles	California ZEV	CO	0.0	--	--	--	0	--	0	0	Pass
CA	150,000 miles	California ZEV	CREE	0	--	--	--	0	--	0	--	--

Certification Summary Information Report

Test Group	RTSLV00.0L2Y	Evaporative/Refueling Family	--
Test #	RTSL10084897	Test Procedure	84 - Charge Depleting Highway
Exhaust Test # for this Evap Test	--	Test Fuel Type	62 - Electricity
Test Date	02/28/2024	Fuel	Electricity
Fuel Batch ID	--	Fuel Calibration Number	--
Vehicle Class	LDV/Passenger Car	DF Type	EPA Assigned
Verify Test Lab ID	Tesla Kato		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	2994	Odometer Units	M
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--
State of Charge Delta	--		
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	208	Recharge Event Energy (kiloWatt-hours)	89.456
Charge Depleting Range (Calculated miles)	369	Charge Depleting Range (Actual miles)	369
Charge Depleting Range Highway (Calculated miles)	--	Derived 5-Cycle Coefficient Model Year	--
All Electric Range Unadjusted (miles)	--	Equivalent All Electric Range (miles)	369
Number of Charge Depleting Bags/Phases Conducted	2	Transition Bag/Phase Number	--
Charge Depleting Bag/Phase			
Charge Depleting Bag/Phase #	Test Result/Emission Name	Unrounded Test Result	
1	Actual Distance Driven (miles)	0	
2	Carbon Monoxide	0	
3	Carbon dioxide	0	
4	Carbon-Related Exhaust Emissions	0	
5	Drive Trace Absolute Speed Change Rating	2.5494	
6	Drive Trace Energy Economy Rating	0.4866	
7	Drive Trace Inertia Work Ratio Rating	3.3259	
8	Integrated DC KW-HRS	0	
9	Manufacturer Fuel Economy	139.15	
10	Nitrogen Oxide	0	
11	Non-methane organic gases	0	
12	Non-methane organic gases plus Nitrogen Oxides	999.999	
13	Particulate Matter	0	
14	System End State of Charge Watt-hours	78.946	
15	System Start State of Charge Watt-hours	0	

Certification Summary Information Report

Test Group			RTSLV00.0L2Y			Evaporative/Refueling Family			--			
Manufacturer Test Comments			Internal Test results for MY2024 Model Y Performance AWD. Range determined by using SAE J1634 Multi-cycle test procedure. END-SOC - 78946 wh (System error limited to 4 digits). MCT dc wh/mi is attached with application. Test Start Odometer Reading 2994 Test Start Propulsion System Mileage 2994 DC energy consumption HWFE1 = 216.29 Wh/mi; HWFE2 = 211.22 Wh/mi; HWFE average = 213.76 Wh/mi									
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
Fed	150,000 miles	Federal Tier 3 Bin 0	CREE	0	--	--	--	0	--	0	--	--
CA	150,000 miles	California ZEV	CO	0.0	--	--	--	0	--	0	0	Pass
CA	150,000 miles	California ZEV	CREE	0	--	--	--	0	--	0	--	--
Fuel Properties												

Certification Summary Information Report

Test Group		RTSLV00.0L2Y			Evaporative/Refueling Family			--	
Consolidated List of Standards									
Exhaust Standards									
Cert Region		Federal			Cert/In-Use Code			Cert	
Vehicle Class		LDV/Passenger Car			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		Federal			Cert/In-Use Code			Cert	
Vehicle Class		LDV/Passenger Car			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		California + CAA Section 177 states			Cert/In-Use Code			Cert	
Vehicle Class		LDV/Passenger Car			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		RTSLV00.0L2Y			Evaporative/Refueling Family			--	
Cert Region		Federal			Cert/In-Use Code			Cert	
Vehicle Class		LDV/Passenger Car			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		LDV/Passenger Car			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
Cert Region		California + CAA Section 177 states			Cert/In-Use Code			Cert	
Vehicle Class		LDV/Passenger Car			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

Certification Summary Information Report

Test Group		RTSLV00.0L2Y	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	

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Test Group		RTSLV00.0L2Y	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	RTSLV00.0L2Y	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