



Wall Connector 3 MID Manual

Type 2 Handle

Model Part #: **1529455-5X-X**

Important Safety Information.....	2	Calculating Group Power Management Requirements for Existing Systems.....	47
Product Specifications.....	5	Wall Connector LEDs.....	48
Wall Connector Label.....	16	Light Codes.....	48
Power Supply Options.....	17	Error Codes.....	49
Circuit Breaker Rating / Maximum Output.....	19	Electric Vehicle Service Equipment (EVSE) Communication Codes.....	51
Using Wall Connector.....	21	Charging Equipment Limited Warranty.....	52
Features.....	22	Limits of Liability.....	53
Connectivity.....	22		
Hosted Access Point.....	22		
Local Network.....	22		
Residual Current Device (RCD).....	23		
Ground Monitor Interrupter.....	23		
Power Outages.....	23		
Firmware Updates.....	24		
Thermal Monitoring.....	24		
Wall Connector External Components.....	25		
Wall Connector Internal Components.....	26		
In the Box.....	27		
Tools.....	28		
Installation Considerations.....	29		
Installation Steps.....	32		
STEP 1: Sizing and Routing Conductor Wires.....	32		
STEPS 2, 3, 4: Preparing and Mounting the Wirebox...	33		
STEP 5: Stripping and Securing Wires in Wirebox Terminals.....	36		
STEP 6: Securing Main Unit to Wirebox.....	38		
Commissioning Procedure.....	39		
Perform Device Setup.....	40		
Software Updates.....	40		
Address Alerts.....	40		
System Details.....	42		
Optional: Access Controls.....	42		
Optional: Dynamic Power Management.....	42		
Optional: Group Power Management.....	43		
Operating and Error States.....	44		
Group Power Management.....	45		
Group Power Management Overview.....	45		
Breaker and Branch Circuit Setup.....	46		
Considerations for Group Power Management.....	47		



IMPORTANT SAFETY INFORMATION

Read all instructions before using this product. Save these instructions. Wall Connector features built-in RCD Type A + DC 6mA.

This manual contains important instructions for the Tesla Gen 3 Wall Connector that should be followed during installation, operation, and maintenance. Please review all warnings and cautions before installing and using the Wall Connector.

 **WARNING:** When using electric products, basic precautions should always be followed, including the following.

INSTRUCTIONS RELATING TO RISK OF FIRE OR ELECTRIC SHOCK

 **WARNING:** Do not install or use the Wall Connector near flammable, explosive, harsh, or combustible materials, chemicals, or vapors.

 **WARNING:** Turn off power at the circuit breaker before installing or cleaning the Wall Connector.

WARNINGS

 **WARNING:** This device should be supervised when used around children.

 **WARNING:** The Wall Connector must be earthed through a permanent wiring system or an equipment-earthing conductor.

 **WARNING:** Use the Wall Connector only within the specified operating parameters.

 **WARNING:** Never spray water or any other liquid directly at the wall mounted control box. Never spray any liquid onto the charge handle or submerge the charge handle in liquid. Store the charge handle in the dock to prevent unnecessary exposure to contamination or moisture.

 **WARNING:** Do not use the Wall Connector if it is defective, appears cracked, frayed, broken, or otherwise damaged, or fails to operate.

 **WARNING:** Do not use the Wall Connector if the flexible power cord or cable is frayed, broken, or otherwise damaged, or fails to operate.

 **WARNING:** Do not attempt to disassemble, repair, tamper with, or modify the Wall Connector. The Wall Connector is not user serviceable. Contact Tesla for any repairs or modification.

 **WARNING:** When transporting the Wall Connector, handle with care. Do not subject it to strong force or impact or pull, twist, tangle, drag, or step on the Wall Connector, to prevent damage to it or any components.

 **WARNING:** Do not touch the Wall Connector's end terminals with fingers or sharp metallic objects, such as wire, tools, or needles.

 **WARNING:** Do not insert fingers or foreign objects into any part of the Wall Connector.



IMPORTANT SAFETY INFORMATION

 **WARNING:** Do not forcefully fold or apply pressure to any part of the Wall Connector or damage it with sharp objects.

 **WARNING:** Use of the Wall Connector may affect or impair the operation of any medical or implantable electronic devices, such as an implantable cardiac pacemaker or an implantable cardioverter defibrillator. Check with your electronic device manufacturer concerning the effects that charging may have on such electronic devices before using the Wall Connector.



IMPORTANT SAFETY INFORMATION

CAUTIONS



CAUTION: Do not use private power generators as a power source for charging.



CAUTION: Incorrect installation and testing of the Wall Connector could potentially damage the vehicle's battery, components, and/or the Wall Connector itself. Any resulting damage is excluded from the New Vehicle Limited Warranty and the Charging Equipment Limited Warranty.



CAUTION: Do not operate the Wall Connector in temperatures outside its operating range -30°C to 50°C (-22°F to 122°F).



CAUTION: Wall Connector should only be installed by personnel who are trained and qualified to work on electrical systems.



CAUTION: No adapters or conversion adapters are allowed to be used.



CAUTION: Cord extension sets are not allowed to be used.

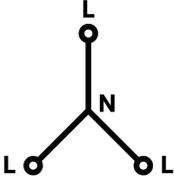


CAUTION: This equipment should be installed and operated with a minimum distance of 20 cm between the radiator and your body.



PRODUCT SPECIFICATIONS

This manual applies to Wall Connectors identified by part number 1529455-**-*.

<p>Nominal Voltage and Wiring (Service Type)</p>	<p>Single phase configuration 1-phase 230 V L-N</p> 	<p>Wye transformer configuration 3-phase 400 V L-L</p> 
<p>Nominal Current and Current Range <i>I_{min}</i> – <i>I_{nominal}</i>(<i>I_{max}</i>)</p>	<p>1-20 (32) A (adjustable by installer)</p>	
<p>Terminal Blocks</p>	<p>Stranded: 4-25 mm², copper only Solid: 1.5-20 mm², copper only</p>	
<p>Supported Earthing Scheme</p>	<p>TN/TT/IT</p>	
<p>Nominal Frequency</p>	<p>50/60 Hz</p>	
<p>Cable Length</p>	<p>7.3 m (24 ft)</p>	
<p>Wall Connector Dimensions</p>	<p>Height: 345 mm (13.6 in) Width: 155 mm (6.1 in) Depth: 110 mm (4.3 in)</p>	
<p>Wire Box Bracket Dimensions</p>	<p>Height: 250 mm (9.8 in) Width: 120 mm (4.7 in) Depth: 50 mm (2.0 in)</p>	
<p>Weight (including wirebox)</p>	<p>6.8 kg (15 lb)</p>	
<p>Operating Temperature</p>	<p>-30 °C to 50 °C (-22 °F to 122 °F)</p>	
<p>Storage Temperature</p>	<p>-40 °C to 85 °C (-40 °F to 185 °F)</p>	
<p>Location</p>	<p>Non-restricted access</p>	
<p>Withstand Current Ratings (<i>I_{pk}</i>, <i>I_{cw}</i> & <i>I_{cc}</i>)</p>	<p>10 kA</p>	
<p>Enclosure Rating</p>	<p>IP 55</p>	



PRODUCT SPECIFICATIONS

Pollution degree	3	
EMC Classification	Environment A & B	
Mechanical Protection	IK08	
Ventilation	Not required	
Means of Disconnect	External branch circuit breaker	
Residual Current Detection	Integrated (Type A + DC 6 mA)	
Wi-Fi	2.4 GHz, 802.11b/g/n	
Maximum RF power		
RFID	13.56 MHz	ERP: 0.0166 mW
UHF	433.92 MHz	ERP: 0.00353 mW
2.4GHz Wi-Fi	2412-2472 MHz	EIRP: 95.5 mW
BLE	2402-2480 MHz	EIRP: 1.84 mW
Certifications	CE, IEC 61851-1 CB	
Meter Type	AC(M)WC3_5-32EU	
Meter Nominal Frequency	50/60 Hz	
Meter Constant	5000 IMP/kWh	
Accuracy Class Index	Index 1 (B)	
Meter Operating Temperature Range	-40 ° C to 55 ° C	
Reference to Standards	IEC 62052-11, IEC 62053-21, EN 50470-3, REA 6A, PTB50.7	
Rated Impulse Voltage U_{imp}	4 kV	
Max Power	22 kW	
Type	Active Energy Meter	
Mechanical Environment	M1	
Electromagnetic Environment	E2	
Humidity	Non-condensing	



MID Compliant Features

To enable MID compliant features, ensure that it is selected during commissioning of the charger.

< Installation Settings

Country
Netherlands

Max Output Current
16 A
Enter an integer value between 6 and 32.

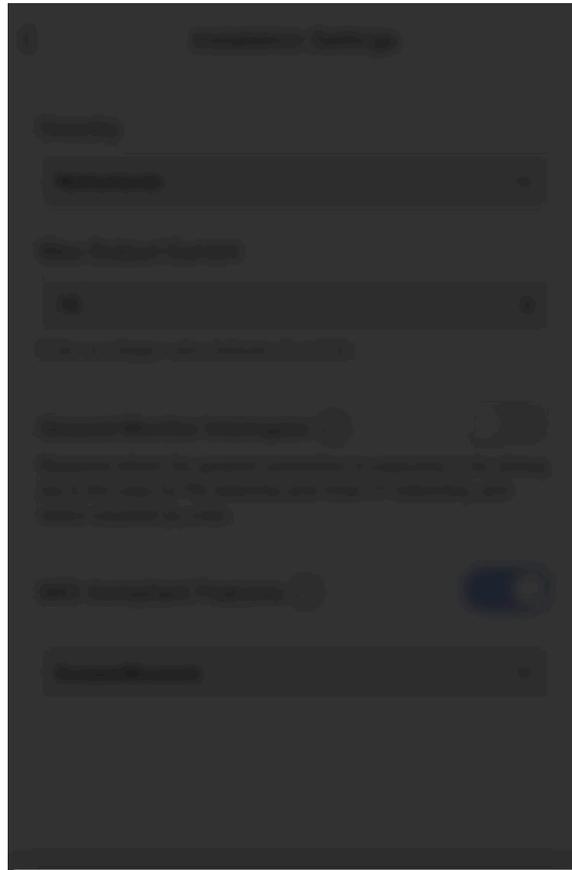
Ground Monitor Interrupter

Required where the ground connection is expected to be strong (as is the case on TN networks and most TT networks), and where required by code.

MID Compliant Features

Europe/Brussels

Done



MID Compliant Features

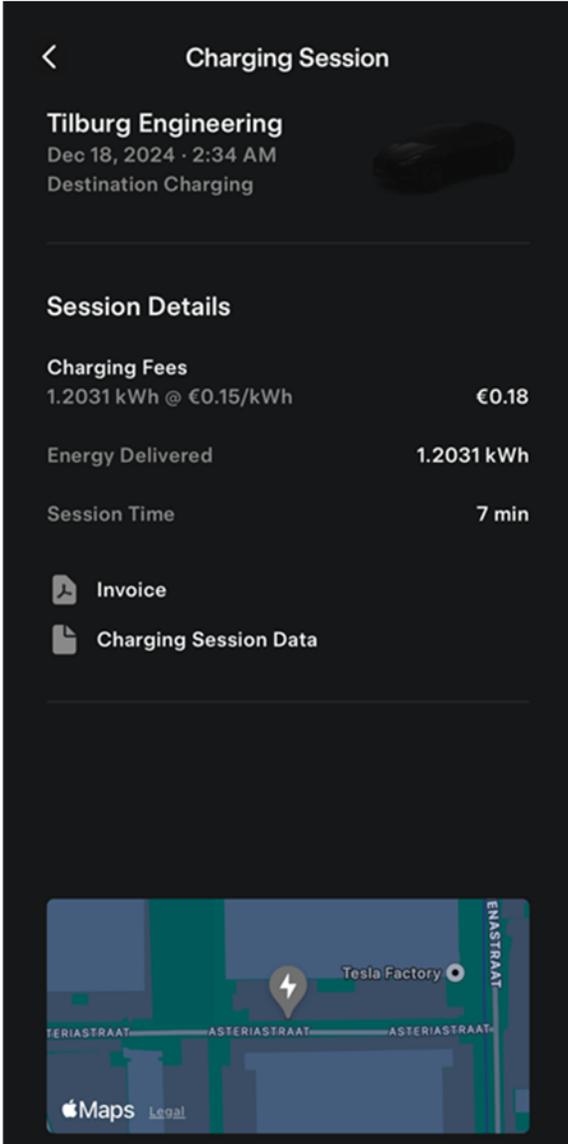
Configure features for Measuring Instruments Directive 2014/32/EU (MID) compliance. An internet connection is required. Once enabled, it cannot be disabled, even after a factory reset.



Billing Process and Procedure with Public Key

At the end of each charging session, the Wall Connector will export the digitally signed billing record for processing and payment. The signed billing record is provided to the end customer alongside the invoice for independent verification of the meter's readings during the session.

For every charge session billed, both files are made available in the charge history in the user's Tesla account, accessible from the Tesla mobile application:

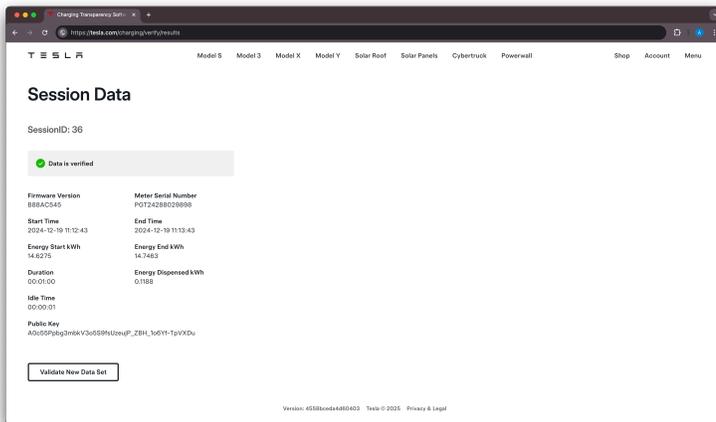
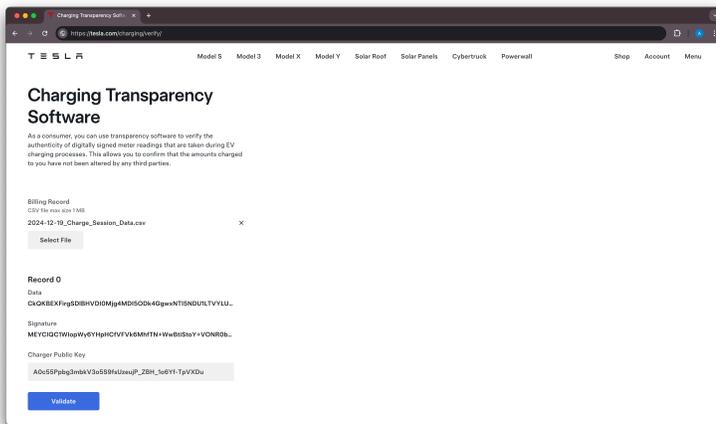
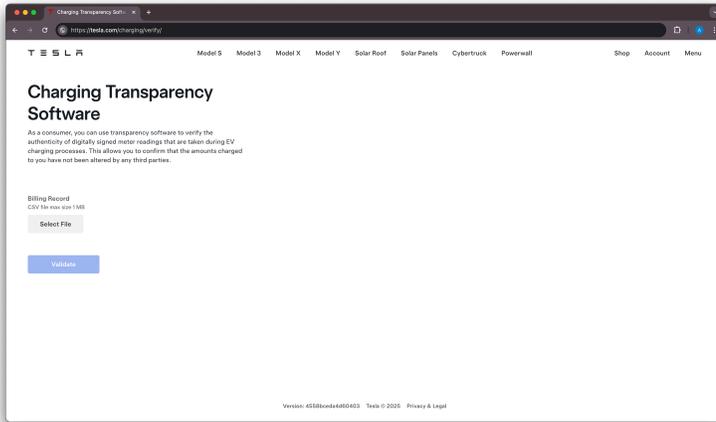


The customer can verify the authenticity of the record by uploading it to Tesla's transparency software: <https://www.tesla.com/charging/verify>

Navigating to the transparency software you will be greeted by the page shown in figure below where you will input the **"Charge Session Data"** file downloaded from the mobile app. The file comes with the public key pre-filled, so once the file is uploaded, select **'Validate'** to verify the authenticity of the data and view the content.



PRODUCT SPECIFICATIONS



Optionally, the charger's public key can be entered manually by tapping the field and entering the values, or scanning the QR code located on the charger, as shown in the figure below:

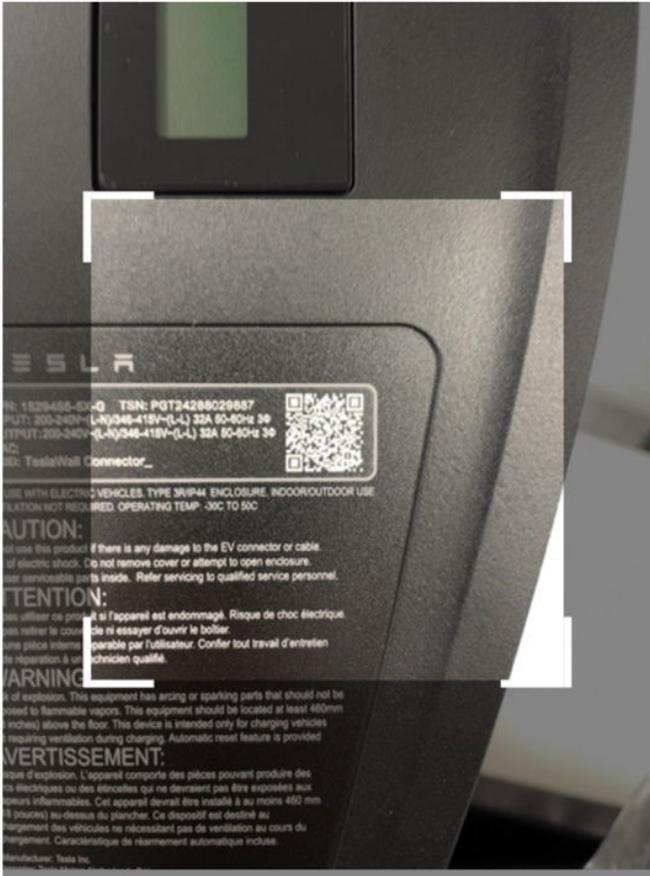


PRODUCT SPECIFICATIONS

Charger Public Key

This field is required



Validate

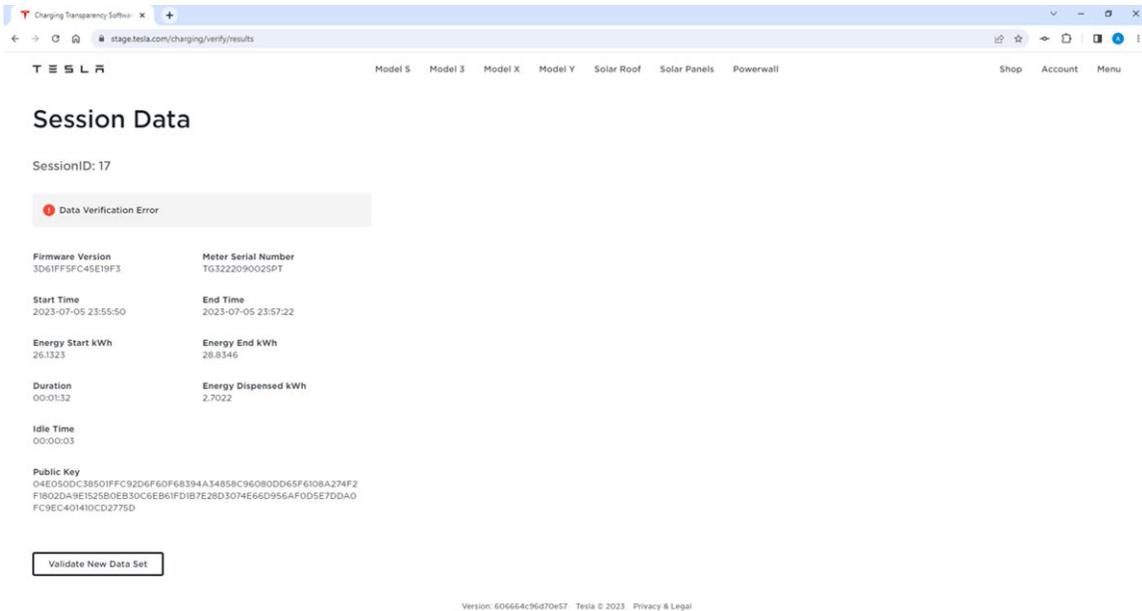


Errors and Failed Validation:

During operation several errors or faults can occur that would lead the meter to mark the present or any upcoming session as invalid. A charging session occurring under any of the following failure types will be marked as invalid. The live display will inform the customer of an error having occurred during the session, and the backend is expected to not bill the customer for the session.

Error Type	Error Displayed
Meter's system time is unsynchronized	Time Error
Meter's configuration is not locked	Session Error
Meter is not commissioned	
Meter's logbook is full	
Corruption detected in the meter's memory	
Rationality check failed	

In the event of the billing record failing the authenticity check, the Transparency Software informs the user with the following warning:





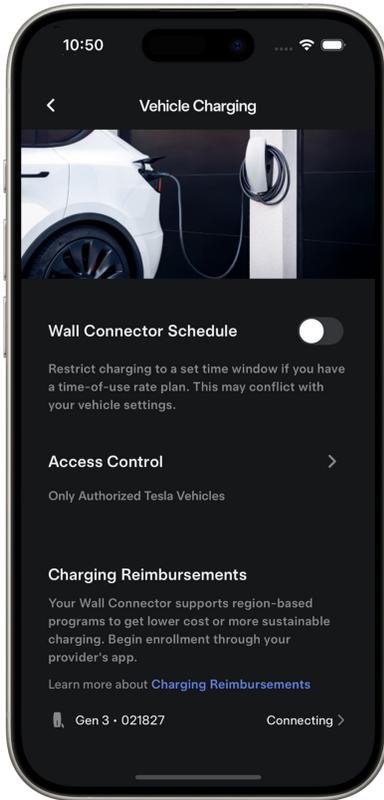
Home Charging Reimbursement Setup

The Home Charging Reimbursement program allows you to reimburse the home charging costs of your company electric vehicle through Tesla partner apps.

A list of currently supported partner organizations can be found here: https://www.tesla.com/en_gb/support/charging/wall-connector/charging-reimbursements

To register your Wall Connector,

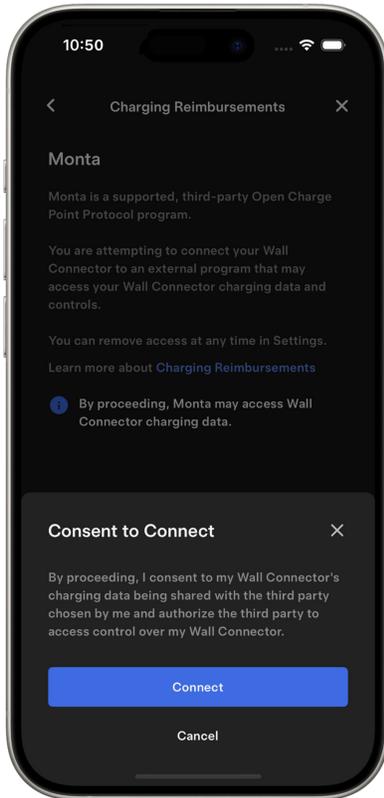
1. Visit the program website and follow their signup instructions. You will be linked to your Tesla Mobile App to complete the setup.



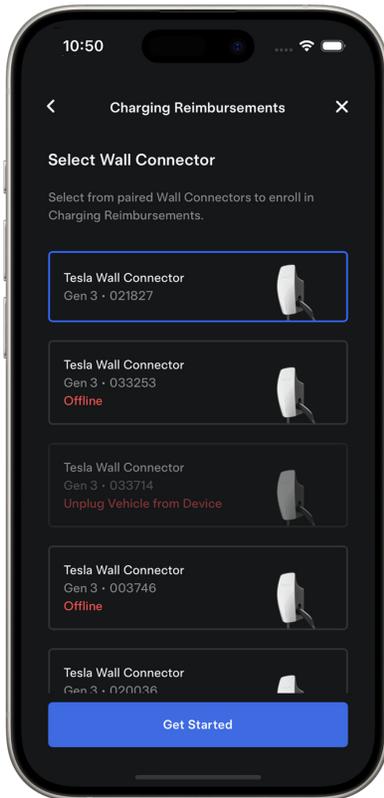


PRODUCT SPECIFICATIONS

2. Select if you wish to consent to data sharing with the partner app.



3. Select the Wall Connector you wish to register.





PRODUCT SPECIFICATIONS

4. You will see when the Wall Connector is successfully enrolled. This may take a few minutes.





Display Screen

Wall Connector comes with an integrated character LCD screen on the side for displaying metering data. The following data is shown on the live display (values are for reference only):

Table 1. Fields displayed in idle state and during an active session

Field	Description	Display (Example)
Lifetime Energy (Totalizer)	Energy measured since manufacturing of the meter.	
Meter Firmware (Version)	Meter's firmware version.	
Serial Number (Unique Identifier)	Serial number of the meter.	
Warnings, errors, faults	Field used to show warnings, errors or faults.	

Table 2. Fields displayed during an active session

Field	Description	Display (Example)
Session Energy	Energy delivered during the charge session.	
Start Date	Start date of the session (in local time).	
Start Time	Start time of the session (in local time).	
Session Length	Duration of the charge session.	
Session ID	Monotonic counter uniquely assigned to every charge session.	

The display continuously cycles through the screens above from the moment the Wall Connector is powered on and the MID compliant features are enabled. The cycle period is 5 seconds. Session-related data is retained for 5 minutes after the session ends (i.e., when the handle is unplugged).



WALL CONNECTOR LABEL

Each Wall Connector has a label on the exterior side with information that is unique to the product, including the public key:



- TPN: Tesla Part Number
- TSN: Tesla Serial Number
- Input: Max input power
- Output: Max output power
- MAC: Unique MAC address assigned to the Wall Connector
- SSID: Unique Wi-Fi access point assigned to the Wall Connector



POWER SUPPLY OPTIONS

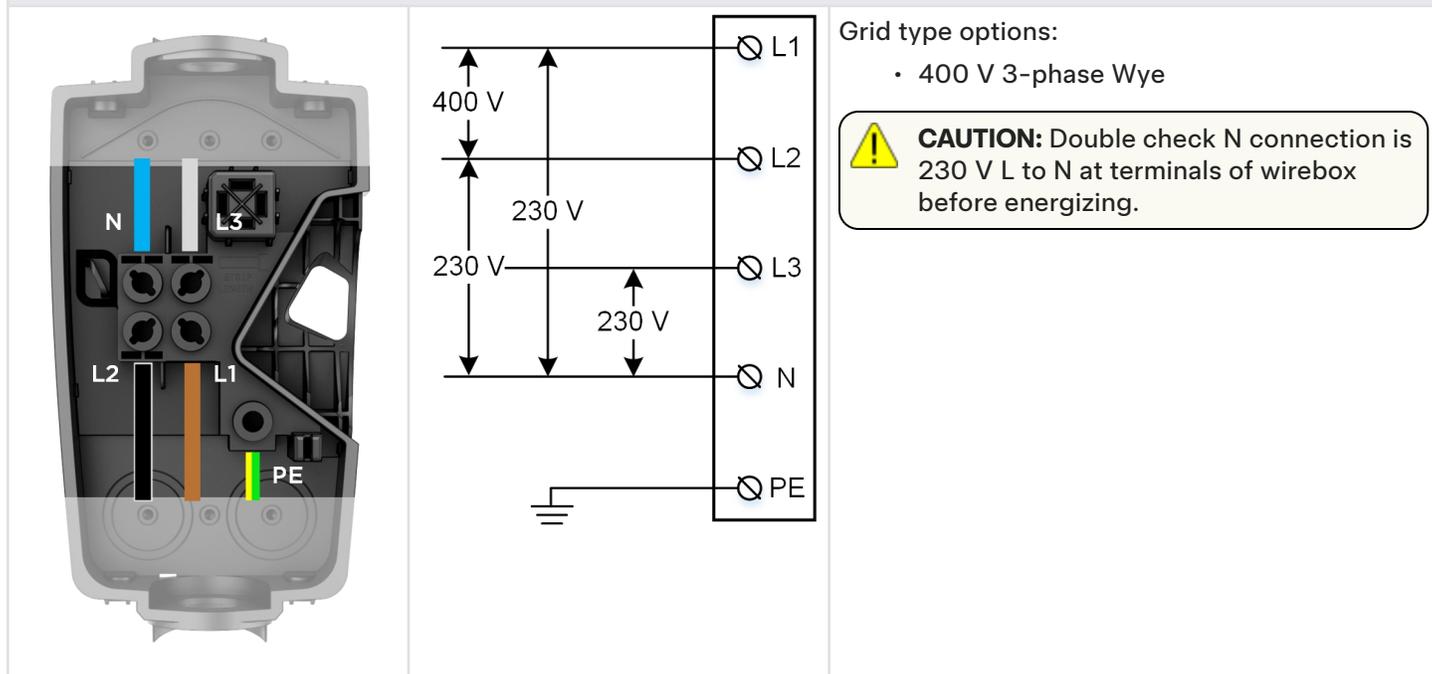
For basic operation, Wall Connector requires an electrical connection to Line 1, Neutral, and Protective Earth (PE) terminals. Connection to Line 2 and Line 3 terminals is supported for some grid types.

CAUTION: Wall Connector supports 230 V L-N (+/- 10%). Mis-wiring the neutral terminal with >264V to PE can damage Wall connector

Wall Connector can operate on a three-phase power supply or a single-phase power supply.

Table 3. Most Common Installation Option

Wiring Configuration Option for Five Wires: Line 1, Line 2, Line 3, Neutral, PE



NOTE: Blue is used as the IEC standard for neutral. Some markets may use other colors to symbolize neutral and line conductors.



POWER SUPPLY OPTIONS

Table 4. 2nd Most Common Installation Option

Wiring Configuration Option for Three Wires: Line 1, Neutral, PE

		<p>Grid type options:</p> <ul style="list-style-type: none">• 230 V Line to Neutral <div style="border: 1px solid black; padding: 5px;"><p>CAUTION: Double check N connection is 230 V L to N at terminals of wirebox before energizing.</p></div>
--	--	---



CIRCUIT BREAKER RATING / MAXIMUM OUTPUT

Power Output

For the best charge rate, install a circuit breaker to match the grid type and desired current output. Wall Connector features built-in RCD Type A + DC 6mA.

Maximum current output (amps) can be programmed by the installer as part of the commissioning process. Any amperage between 6 A and 32 A can be selected. Estimate power output for various grid connections below:

 **NOTE:** To ensure that the desired current output of Wall Connector can be delivered continuously for multiple hours, a circuit breaker has to be selected that adheres to local regulations and design best practices. The table below provides a guideline for circuit breaker derating to avoid nuisance tripping. Regardless of the breaker size, cables smaller than 4 mm² stranded should not be used to connect the Wall Connector to the breaker. Please refer to the next page for additional information regarding cable size.

 **NOTE:** Some Tesla vehicles may draw less current than the max output of Wall Connector. Actual charging rate depends on Wall Connector output and onboard charger in the vehicle. See Tesla website for vehicle specifications.

Maximum current output (A)	Recommended breaker rating (A)	230 V Single-phase power output (kW)	230 V Three-phase delta power output (kW)		400 V Three-phase power output (kW)
			Model S/X until 2020	Model 3/Y and Model S/X 2020+	
32	40	7.4	8.5	11	22.1
25	32	5.8	6.6	10	17.3
20	25	4.6	5.3	8	13.8
16	20	3.7	4.2	6.4	11
13	16	3	3.5	5.2	9
10	16	2.3	2.7	4	6.9
8	10	1.8	2.1	3.2	5.5
6	10	1.4	1.6	2.4	4.1

 **NOTE:** Refer to local regulations regarding any disconnect requirements.

 **NOTE:** See [Commissioning Procedure on page 39](#) for details on how to set maximum amperage.



CIRCUIT BREAKER RATING / MAXIMUM OUTPUT

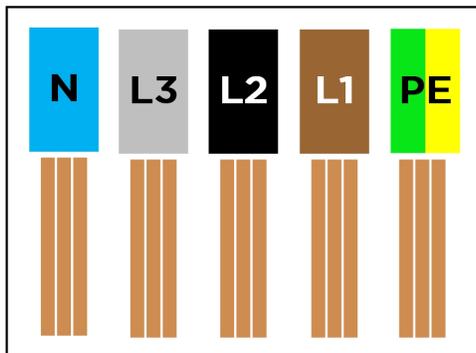
Branch Circuit Conductors and Earth Wire

- Refer to local electrical code to select correct conductors and earth wire size that are suitable for the chosen circuit breaker.
- Wall Connector wirebox terminals can accept stranded wire sized between 4 mm² to 25 mm², or solid wire 1.5 mm² to 25 mm². Installer is responsible for selecting a wire size that will be compliant with local code, possibly taking into account amperage, distance and other site conditions.



 **NOTE:** If using stranded wiring smaller than 4 mm², use a correctly sized ferrule so it can be securely terminated.

- For sites with multiple Wall Connectors, each Wall Connector must have its own branch circuit and dedicated circuit breaker.
- For outdoor installations, use watertight fittings when securing feeder wires to the wirebox.
- For this installation guide, IEC standard colors are used for L1, L2, L3, Neutral, and PE. Some regions may use other standardized colors.



Earth Connections

Wall Connector must have an earth path back to the main equipment earthing point on site. Without a proper earth connection, the Wall Connector will not charge a vehicle during an earth assurance test. Equipment-earth conductor must be run with the circuit conductors and connected to the equipment-earth terminal in the wirebox. Install an earth wire sized according to local electrical code.

 **NOTE:** To support TT and IT grids, earth assurance can be disabled as part of the commissioning process. Earth assurance must always be enabled for TN grids.



USING WALL CONNECTOR

1. Open the vehicle charge port by pressing the button on the charge handle, pressing on the charge port door, using the mobile app, using the vehicle touchscreen, or by pressing and holding the trunk button on the keyfob.
2. Insert the charge handle into the vehicle charge port.
3. Check the vehicle controls to verify charging.
4. To remove the charge handle from the vehicle, press and hold the button on the handle to unlock the charge port.



NOTE: The vehicle must be unlocked for the charge handle to be removable.



5. Remove the charge handle from the vehicle charge port.
6. Wrap the charge cable counter-clockwise around the Wall Connector and insert the charge handle into the holster.





FEATURES

Connectivity

Wall Connector is equipped with Wi-Fi to communicate with local site routers, vehicles, mobile devices, other Wall Connectors, and other Tesla products.



Hosted Access Point

Wall Connector hosts a WPA2 password-secured, 2.4 GHz, 802.11 Wi-Fi access point network to facilitate commissioning and connecting to other devices.

A unique SSID Wi-Fi network name and WPA2 password for connecting to the Wall Connector are printed on a label at the rear of the main unit, as well as on the front cover of the Quickstart Guide included in the box.



Local Network

Connecting Wall Connector to a local Wi-Fi network enables it to receive over-the-air firmware updates, remote diagnostics access, and usage data tracking capability. A Wi-Fi connection is required for sites that utilize authentication, billing, and other property management features.

 **NOTE:** New features and functions will be added over time.

Wall Connector only supports WPA2 secured, 2.4 GHz, 802.11 infrastructure mode networks.



 **NOTE:** Networks that are not password protected are not supported. The Wall Connector will not display non-password protected networks in the options list.

Residual Current Device (RCD)

The Wall Connector features an RCD Type A function with DC 6mA detection and disconnection capabilities. Local wiring regulations always take precedence.

AC earth fault interruption automatically detects an AC current mismatch between power delivery conductors that would indicate that current is flowing through the earth conductor. AC fault protection will trip at 20 mA.

DC earth fault interruption automatically detects DC leakage through earth. DC fault protection will trip at 6 mA.

User interaction such as pressing the cable button or unplugging from vehicle is required to clear this fault. If the fault continues, consult with an electrician to review the power supply.

Ground Monitor Interrupter

The ground monitor interrupter allows the installer to select different early monitor options. Wall Connector continuously checks for the presence of a safe earth connection and automatically recovers from faults. Earth assurance operates by injecting a small amount of current into the earth conductor in order to measure the impedance between line and earth. If high impedance is detected, the Wall Connector will lock out charging and display an error code of two (2) red blinks. See [Error Codes on page 49](#) for a full list of error codes.

For earth assurance to operate on TN grids, one leg of the distribution transformer must be earth-bonded (Neutral). Earth bond should only occur at one location in a site's electrical system.

Wall Connector earth assurance may be adjusted in countries with TT or IT grid configurations and can be disabled in the commissioning procedure.

The Earth Monitor Interrupter feature monitors the Wall Connector earth connection. Select the correct option based on the installation's earthing system and earth impedance.

Depending on country, three options are available:

- **Enable:** Earth connection will be monitored and a high detected earth resistance will disable the Wall Connector. This is the preferred setting to provide protection and should be selected where earth connection is expected to be strong (as in the case on TN networks and most TT networks), and where required by regulation.
- **Disabled:** Earth connection will not be monitored. This should be selected where the earth connection is not made (as is the case for IT networks), or where the current induced by this check would be problematic (as is the case on some TT networks with sensitive residual-current devices).

Temporary problems such as earth faults or utility power surges are resolved automatically.

Power Outages

If there is a power outage while Wall Connector is charging a vehicle, charging will automatically resume within 1 to 3 minutes after power restoration. The Wall Connector will display a solid blue light on the faceplate to indicate that it is communicating with the vehicle and waiting to resume charging. Alternatively, pressing the button on the charge handle after power restoration will cause Wall Connector to resume charging immediately.

 **NOTE:** Wall Connectors in a power management group maintain their group power management settings after a power loss event.



Firmware Updates

Firmware updates will be automatically applied to the Wall Connector to improve the user experience and introduce new features. Connect Wall Connector to Wi-Fi for access to the most recent firmware update. See [Commissioning Procedure on page 39](#).

Tesla vehicles can provide firmware updates to Wall Connectors.

Thermal Monitoring

Wall Connector actively monitors temperatures in multiple locations while charging to ensure stability of the charge session. Temperature sensors are located at the relays, microcontroller, and charge handle to monitor the temperature of the terminals in the wirebox.

In warmer conditions, Wall Connector may reduce current and charge speed to protect itself. When this happens, the light bar on the faceplate will continue to display the “streaming green” and a blink code of three red flashes to indicate that charging has been reduced due to high temperatures. If heat continues to rise, Wall Connector will stop charging and display a blink code of three red flashes.



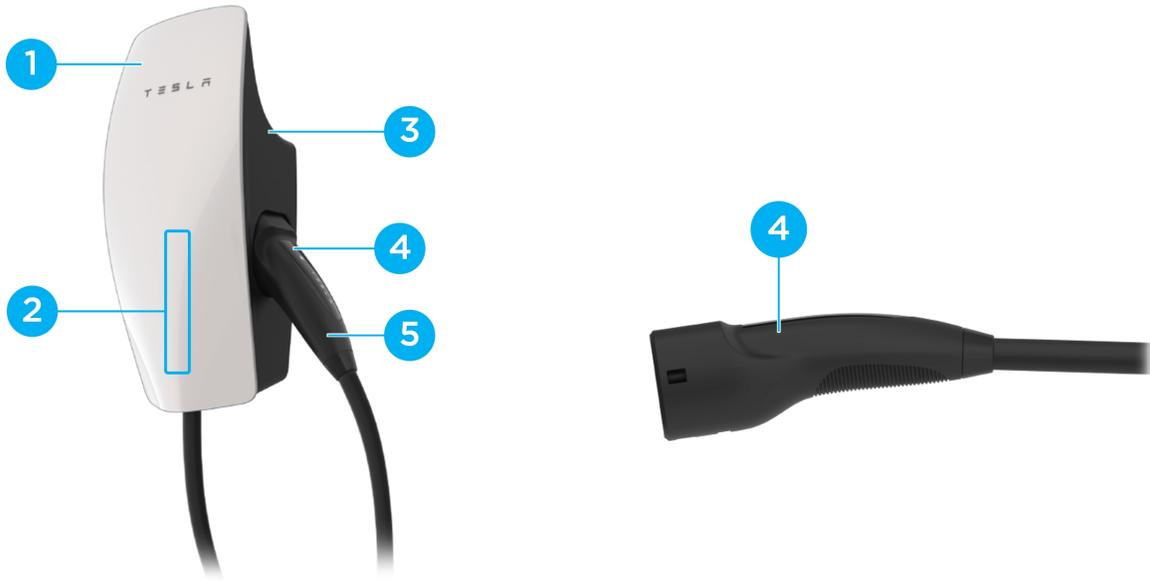
NOTE: See [Error Codes on page 49](#) for full list of error codes.

For optimal performance, install Wall Connectors in areas where ambient temperature will remain below 50 °C (122 °F). In rare circumstances, Wall Connector may begin reducing amperage at 35 °C (95 °F) ambient temperatures. Adjustments to amperage are automatic and do not require user input; Wall Connector will return to starting current when temperatures are reduced.



WALL CONNECTOR EXTERNAL COMPONENTS

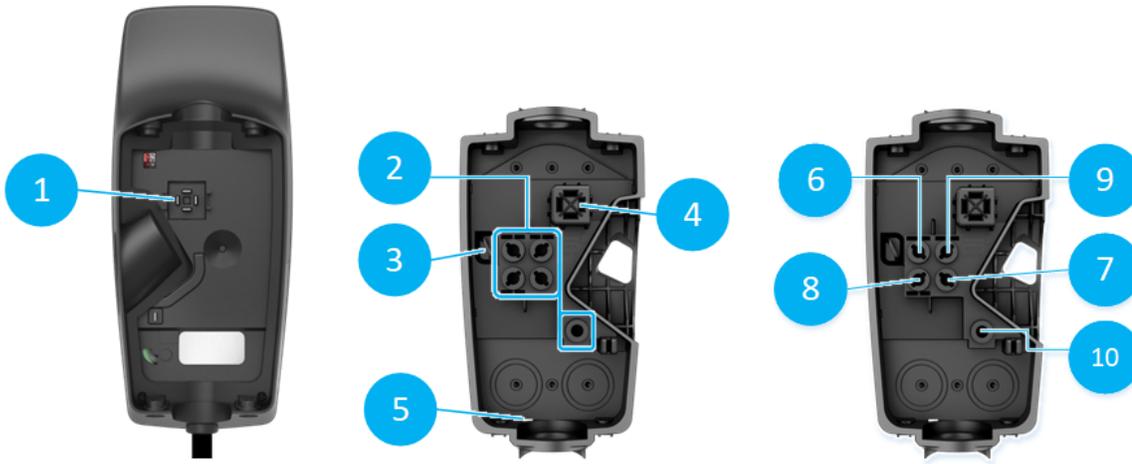
"Wall Connector" refers to the product as a whole.



1. Faceplate
2. Light bar (vertical)
3. Main unit
4. Charge handle button
5. Charge handle



WALL CONNECTOR INTERNAL COMPONENTS



1. Contact blades
2. Temperature sensor
3. Conductor terminals
4. Zip tie anchor
5. Sliding contacts
6. Wirebox drainage opening (enables Type 3R protection)
7. Neutral
8. Line 1
9. Line 2
10. Line 3
11. Earth



IN THE BOX

 <p>Main Unit</p>	 <p>Wirebox</p>	 <p>Wirebox Mounting Template</p>	 <p>Hex Bit (4 mm)</p>
 <p>Zip tie (x1)</p>	 <p>Wall Connector-to-Wirebox Fastener (x4)</p>	 <p>Wirebox-to-Wall Fastener (x2) 4.0 x 50 mm (PZ2) (#8 x 2 in)</p>	 <p>Quickstart Guide (contains sticker with SSID network name and unique password)</p> <p>SAVE THIS DOCUMENT</p>

 **NOTE:** The hex bit, zip tie, and fasteners are located in a plastic bag inside the wirebox, which comes attached to the main unit of the Wall Connector.

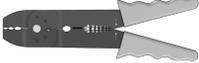
 **NOTE:** Wall plugs are not included. If installing in concrete or other like materials, use 6 mm wall plugs.



TOOLS

Required Tools

 **NOTE:** Drill bit sizes assume wood mounting surfaces. If installing on concrete or other masonry, consult with an electrician for optimal pilot hole sizes.

 <p>Torque Driver (5.6 Nm, 50 lbf . in)</p>	 <p>Multimeter</p>	 <p>Stud Finder (If installing on wood walls)</p>	 <p>Tape Measure</p>
 <p>Wire Stripper</p>	 <p>Drill Bit, 5 mm (3/16 in) (If installing on wood walls)</p>	 <p>Drill Bit, 2.5 mm (3/32 in) (If installing on wood walls)</p>	 <p>Bit Driver</p>
 <p>Level</p>	 <p>Smartphone (with Wi-Fi)</p>	 <p>Power Drill</p>	

Optional Tools

 <p>Step Bit, 29 mm (1-1/8 in)</p>	 <p>Step Bit, 35 mm (1-3/8 in)</p>	 <p>Computer (with Wi-Fi)</p>
---	---	--

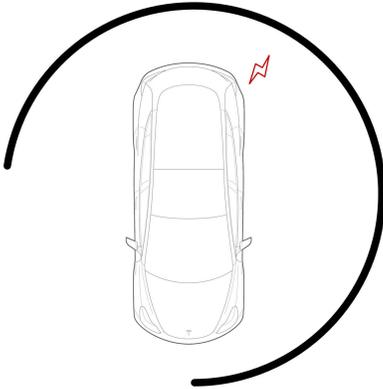


INSTALLATION CONSIDERATIONS

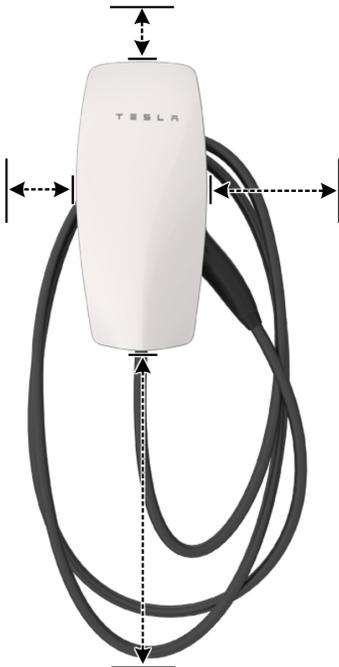
Wall Connector may be installed on any flat, vertical surface capable of supporting its weight (e.g. wall, pedestal, etc.). Wall Connector (wirebox, faceplate, and long cable) weighs 6.8 kg (15 lb).

Choosing Location

Install Wall Connector in a location that allows the charge cable to reach the vehicle charge port without putting strain on the cable. Recommended installation area for Wall Connectors with 24 ft (7.3 m) cable:



Install Wall Connector in a location with ample clearance on all sides to allow the charge cable to loop around the unit and the charge handle to comfortably land in the side dock.

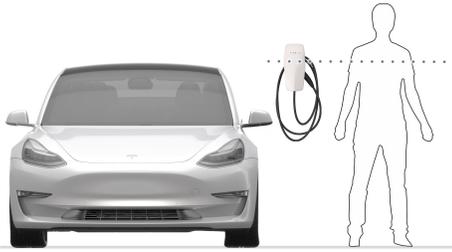


NOTE: If constrained by space, a cable organizer can be installed near the Wall Connector.



INSTALLATION CONSIDERATIONS

Choosing Height



- Maximum height (indoor and outdoor): 1.52 m (60 in)
- Recommended height: ~1.15 m (~45 in)
- Minimum outdoor height: 0.6 m (24 in)
- Minimum indoor height: 0.45 m (18 in)

Maximizing Wi-Fi Signal Reception

Wall Connectors should be connected to a local Wi-Fi network for optimal functionality. For maximum signal reception, avoid installing Wall Connector on opposite sides of concrete, masonry, metal studs, and other physical obstructions that could impede Wi-Fi signal reception.

 **NOTE:** If a mobile device is able to connect to local Wi-Fi at a given location, it is a good indication that Wall Connector will also be able to connect.





INSTALLATION CONSIDERATIONS

Wire Entry Options



Wall Connector's wirebox has multiple wire entry options. Choose one entry path and follow installation instructions based on chosen entry path.

1. Top entry location
2. Rear entry locations (left or right)
3. Bottom entry location



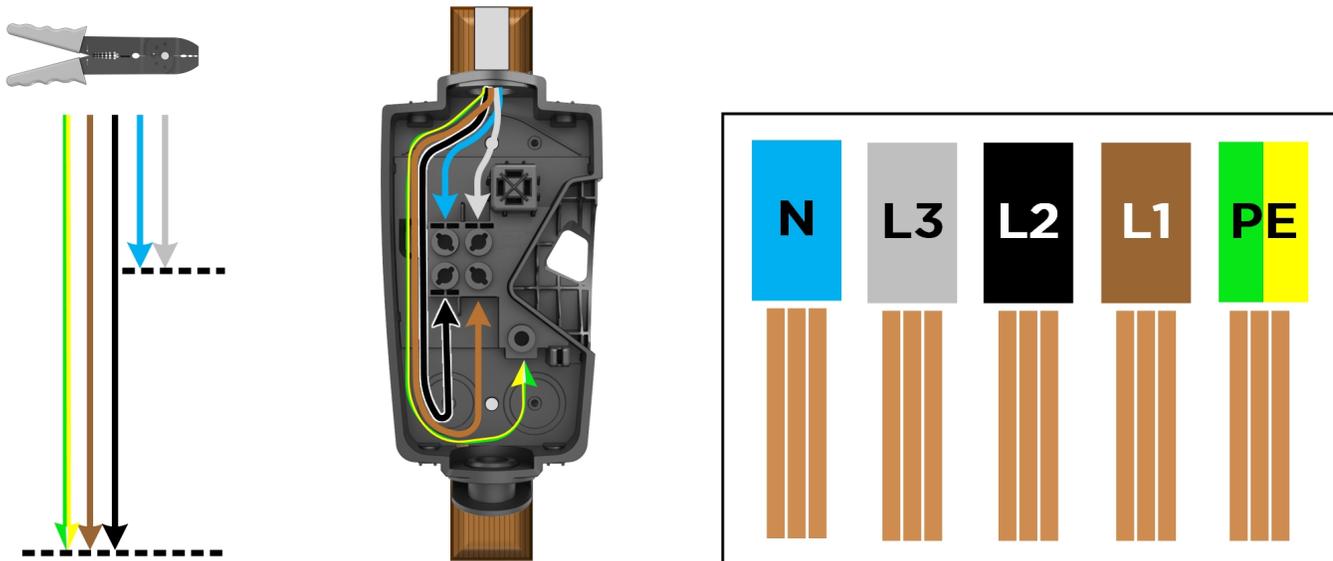
INSTALLATION STEPS

STEP 1: Sizing and Routing Conductor Wires

Pull excess wire first, then cut to length. Use a wire stripper to cut each conductor wire appropriately based on entry point and position. Attach the conduit/fittings and route each conductor wire into the wirebox so it lands in the correct terminal.

 **NOTE:** Insulation wire colors may vary based on market.

For Top Wire Entry

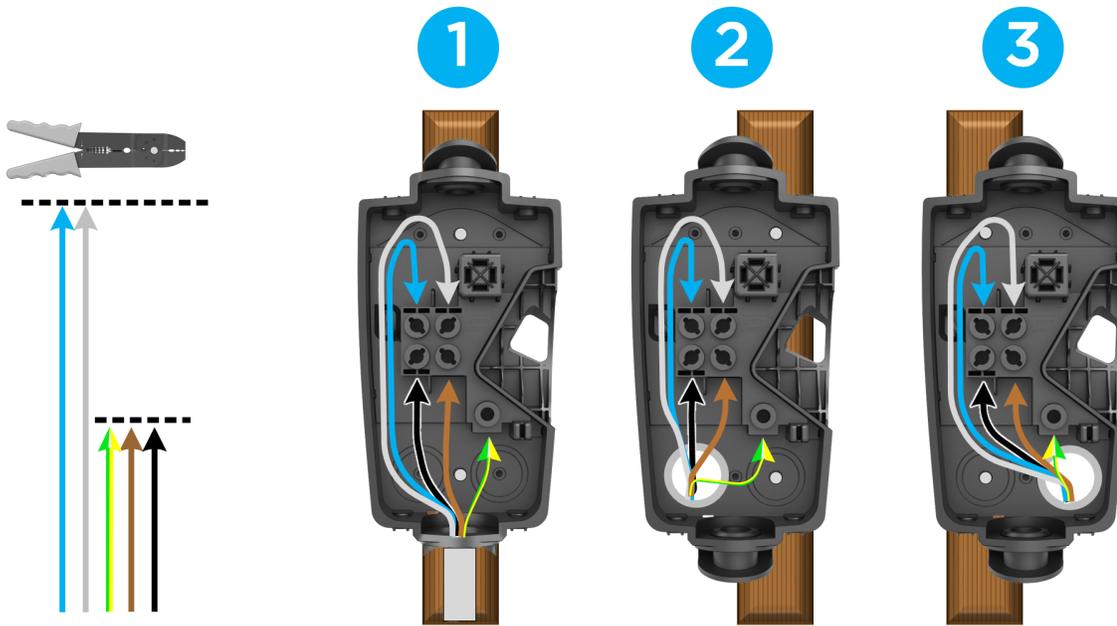


Wire lengths/proportions shown are not to scale.

For Bottom (1), Rear Left (2), or Rear Right (3) Wire Entry



INSTALLATION STEPS



Wire lengths/proportions shown are not to scale.

STEPS 2, 3, 4: Preparing and Mounting the Wirebox

This procedure has 4 different variations depending on the chosen wire entry option, but the general order of steps will be the same for all wire entry options:

1. Drill 5 mm holes into the wirebox*. If wiring for rear entry, use step bit.
2. Use cardboard template to plan or drill pilot holes into mounting surface*. A 2.5 mm pilot hole is recommended for most surfaces.



NOTE: Drill larger pilot holes that can accommodate 6 mm wall plugs if installing on concrete, masonry, or similar materials.



NOTE: Installer can adjust pilot hole size based on mounting surface



NOTE: Use a level to ensure that the template is completely level.

3. Attach wirebox to mounting surface using included fasteners, which include an integrated sealing washer. The fastener head is compatible with both #2 Phillips or #2 square head bit. Attach conduit/fittings and bring in conductor wires*.



NOTE: It is the responsibility of the installer to select appropriate conduit/fitting materials for the installation.

*Exact locations depend on the wire entry option



INSTALLATION STEPS

Table 5. For Top Wire Entry

For Top Entry	1	2	3

Table 6. For Bottom Wire Entry

For Bottom Entry	1	2	3

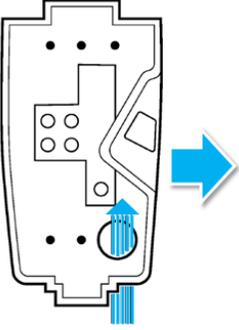
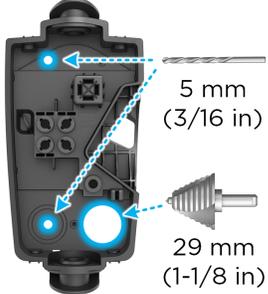
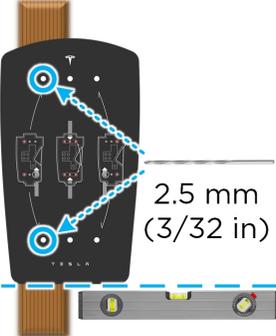
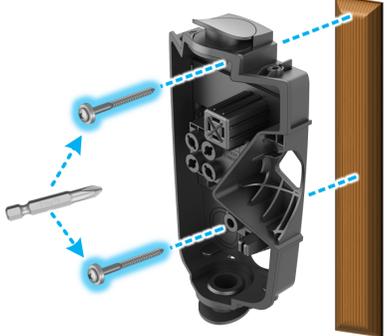
Table 7. For Rear Left Wire Entry

For Rear Left Entry	1	2	3



INSTALLATION STEPS

Table 8. For Rear Right Wire Entry

For Rear Right Entry	1	2	3
	 <p>5 mm (3/16 in)</p> <p>29 mm (1-1/8 in)</p>	 <p>2.5 mm (3/32 in)</p>	

CAUTION: Wall Connector is IP 55 rated and does not need caulking. Refrain from using any bonding, sealant, or adhesives as part of the Wall Connector installation. The provided screws have sealant washers which provide adequate sealing.

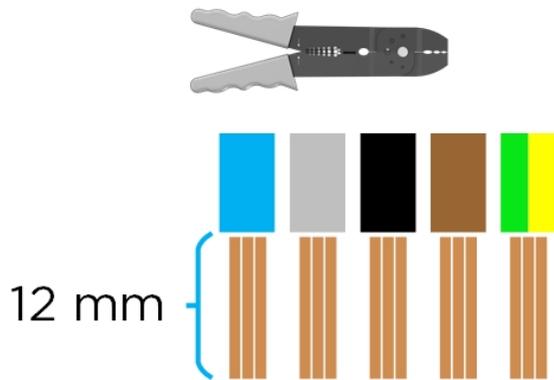
Installer is responsible for providing appropriate glands, fittings, and conduit to secure incoming power supply to Wall Connector wirebox. Top and bottom entry are 28 mm in diameter when sealing plug is removed. If needed, bottom entry can be expanded using a step bit. Do not expand top entry.



INSTALLATION STEPS

STEP 5: Stripping and Securing Wires in Wirebox Terminals

1. Use a wire stripper to strip the ends of each wire to ~12 mm.

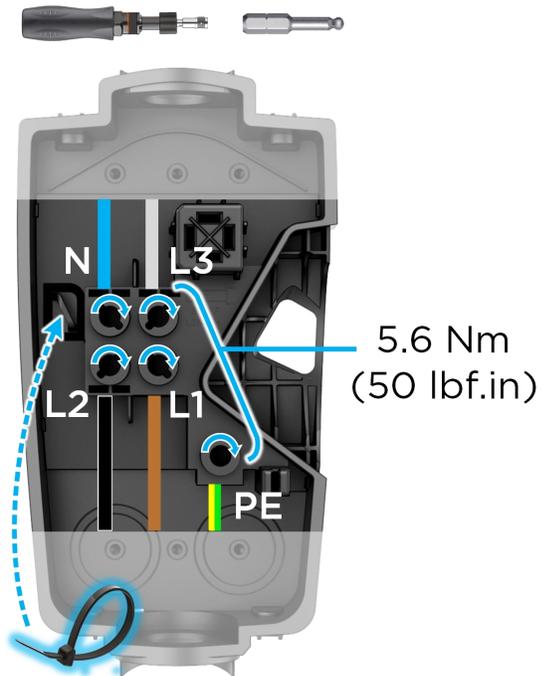


2. Insert each stripped wire into the correct terminal.



NOTE: If using stranded wiring smaller than 4 mm², use a correctly sized ferrule so it can be securely terminated.

3. Use the included bit to torque each terminal to 5.6 Nm (50 lbf.in). Use zip ties to secure wires to service loop on the left side of the wirebox.





INSTALLATION STEPS

4. Use scissors to cut excess plastic off zip tie after securing in place. Ensure no wiring or other obstruction crosses over the terminal block screws before proceeding to the next step.



INSTALLATION STEPS

STEP 6: Securing Main Unit to Wirebox

1. Attach the main unit to the wirebox.



2. Secure the main unit to the wirebox with the 4 included fasteners using the included bit. Use a bit driver to hand-tighten the fasteners.





COMMISSIONING PROCEDURE

The commissioning process for Wall Connector enables easy configuration of circuit breaker size, Wi-Fi connectivity, and group power management options.

The Quick Start Guide is included with the Wall Connector and contains a QR code that is used to connect to Wall Connector to perform device setup.

 **NOTE:** Ensure the Quick Start Guide is not discarded as the QR code may be required in the future!

 **CAUTION:** Start the process only when the Wall Connector is powered on. Do not connect to any load when the face plate is separated from the main unit.

1. Using the smartphone camera, scan the QR label on the Quick Start Guide.



- If the Tesla One app has not yet been installed, follow the prompts to install the app.
- If the Tesla One app is already installed, ensure it has been updated to version **10.8 or greater** (select **More**, then select **Settings**, then the app version to see if an update is available).

 **NOTE:** Tesla One gets new features every week, so update frequently! The app should automatically update but it is best practice to check for new updates, and manually update when one is available.

2. Log in to Tesla One using your Tesla Partner Portal account, or select **Create Account** to create a new account.

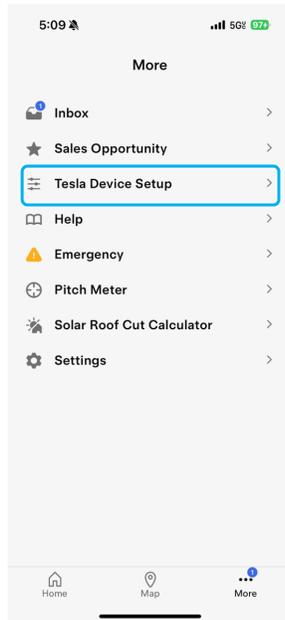
 **NOTE:** Apple users may be prompted to allow Tesla One to find and connect to devices on the local network. Select **Allow** or **OK**, as this is required to connect to the Wall Connector Wi-Fi network. If the prompt does not automatically appear, permission can be granted by selecting Settings > Apps > Tesla One > Local Network.

 **NOTE:** Android users may be prompted to allow Location Consent. **Allow all the time** or **Allow only while using the app**, as this is required to allow Tesla One to find and connect to devices. If the prompt does not automatically appear, permission can be granted by selecting Settings > Apps > Tesla One > Location.

3. Select **Tesla Device Setup**, then select **Begin**.



COMMISSIONING PROCEDURE



4. Select **Scan QR Code**, then use the smartphone camera to scan the QR code on the Quick Start Guide again.
5. On the charge handle, press and hold the handle button for 5 seconds. Wait for the LED to pulse green, then select **Join**.

Perform Device Setup

1. Select **Installation Settings**.
2. Select the appropriate **Country**. Then select **Breaker Size (A)**.
3. Select **Wi-Fi** to connect Wall Connector to the homeowner's network. The Wall Connector can be connected to a network manually or by selecting from the available networks.
When connection is complete, Wall Connector will display Wi-Fi as connected.



NOTE: Wall Connector is only compatible with 2.4 GHz networks.

Software Updates

1. Select **Software Update** to ensure the latest software is installed.
2. Select **Update** if a software update is available.

Address Alerts

The Alerts tray is displayed at the bottom of the page if any alerts are present, and is a shortcut for the installer to address important issues. The Alerts tray displays critical errors that the installer must take action on.

Alert Types

Some alerts are used to help explain what the system is doing:

- Software Update



COMMISSIONING PROCEDURE

Some alerts are used to indicate an issue the installer needs to address:

- Installation settings not configured



COMMISSIONING PROCEDURE

Alert Icons

Icon	Name	Description
	Process	The system is carrying out a process; wait for it to complete
	Success	This task has been completed successfully
	Warning	There may be an issue; the installer should review
	Error	There is an issue that will prevent the system from functioning; action is required by the installer

System Details

1. Select **System Details** to access more information about the Wall Connector System.

Optional: Access Controls

1. Select **Access Controls** to configure which specific vehicles can access Wall Connector.
2. From the *Access Control* menu, select the level of access control as determined by the customer:
 - **All Vehicles:** default option, any vehicle can charge from this Wall Connector.
 - **Only Teslas:** any Tesla can charge from this Wall Connector.
 - **Authorized Teslas Only:** only Teslas configured in device setup or Tesla app can charge from this Wall Connector.
 - **Compatibility Mode:** This option allows Wall Connector to be compatible with older generation vehicles. Use it only if you experience faults with your Wall Connector and your electric vehicle. Note that you will lose some software functionality in utilizing this mode.
3. If configuring Authorized Teslas Only, select **Add** to enable access for new vehicles. Enter the VIN(s) of the vehicle(s) the customer would like to authorize. The customer can also add vehicles in the Tesla app.

Optional: Dynamic Power Management

Dynamic Power Management enables Wall Connector to dynamically adjust EV charging power based on live readings of the overall load in the panel. An energy meter is installed to MONITOR live current in the panel; when panel loads are reduced, Wall Connector is able to increase charging current up to a limit set by the installer.

 **NOTE:** As described in the [Wall Connector Application Note on Dynamic Power Management](#), Wall Connector should be installed with a 60A circuit breaker for maximum power output; if there is not enough room for a 60A breaker in the electrical panel, a smaller breaker can be installed with a lower amperage configuration (see the application note for more information).

1. Once connected, the Remote Energy Meter will automatically be detected. Select **Meter** to configure CTs and set the Max Conductor Limit.



COMMISSIONING PROCEDURE



NOTE: The Remote Energy Meter has four CT ports, with the following voltage references:

- CT1: L1
- CT2: L2
- CT3: L3
- CT4: L1

2. Select the Neurio meter to configure the CTs.
3. For each of the connected CTs, select the CT and set the **Location** to **Conductor**.
4. On the **Meter** screen, set the **Max Conductor Limit**. This value should be 80% of the electrical panel's rated limit.

See the [Wall Connector Application Note on Dynamic Power Management](#) for instructions to test the system and troubleshoot as needed.

Optional: Group Power Management

Power sharing can only be done in a group of six wall connectors (one leader + five followers). Finish commissioning the followers before commissioning the leader. Additionally, make sure that all the followers have a good line of sight to the leader. For more information, see [Group Power Management on page 45](#).

1. Select **Power Sharing** to connect additional Wall Connectors.
2. Toggle off **Power Sharing** to make settings adjustments.
3. To add a new Wall Connector, select **Scan QR Code** then scan the Wi-Fi QR code on the new Wall Connector's Quick Start Guide.
4. Select **Add Follower** to add the new Wall Connector.
5. Select **Done** once the leader is reconnected and the follower has successfully been added.
6. Enable the power sharing network.

Program Network Limit

1. Select **Power Sharing Settings** to program a network limit.
2. Enter the appropriate network limit:



NOTE: This is the maximum total current a power sharing network is allowed to consume in amps. This represents the continuous current which the network will not exceed. An electrician will need to determine the correct amount of amperage and confirm that the load center has appropriate overcurrent protection.

Expected Behaviors

- SSID access point of all Leader Wall Connectors in a power sharing network will continue to broadcast.
- Removing a Wall Connector from a network will temporarily set that device's max output to 6 amps. Cycle circuit breaker to reset Wall Connector to original configuration setting.
- Leader Wall Connector will share site Wi-Fi with follower Wall Connectors.



Operating and Error States

Operating States

Ready: Wall Connector is ready to charge.

Charging: Connected to the internet and charging the car.

Unplugged: Connected to internet but not connected to car.

Waiting for vehicle: Charger is plugged in, and a charge session needs to be initiated in the vehicle or through the app.

Error States

Critical fault: Needs to be monitored. If it lasts for over 3 days, call Tesla Service.

Non-critical fault: Charging blocked due to authentication error, call Tesla Service.

Offline: Wall Connector does not have good connectivity and cannot connect to Tesla Servers. Contact your Tesla Certified Installer.

Error Codes

Error	Solution
Device is already registered on the same site and shows a warning.	Refresh the device list.
Device is already registered to a different site.	Remove from Warp and try to register again/Flag to Tesla team members.
Firmware is not up to date to minimum 22.33.1	Update firmware. (Side load).
Request ID cannot be found in error logs.	Send a ticket to the Engineering team.



GROUP POWER MANAGEMENT

Group Power Management Overview

The firmware-based group power management feature enables up to 6 Wall Connectors installed at the same site to intelligently share the site's total available power via unit-to-unit Wi-Fi. This minimizes the need for many residential and commercial applications to have specific electrical upgrades for concurrent multi-vehicle charging.

During the commissioning process,

- Wall Connectors are allocated to individual branch circuits (each up to 60 amps)
- Total power is allocated to the group of linked Wall Connectors



NOTE: For instructions to commission Wall Connectors in a group power management network, see the [Commissioning Procedure on page 39](#).

Total current output of Wall Connectors that share power will never exceed the site's total allocated power.

1. AC feed (service panel)
2. Group power management via Wi-Fi communication

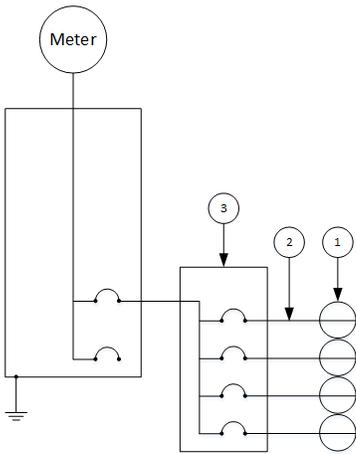


Breaker and Branch Circuit Setup

Group Power Management circuits may be installed in an electrical panel that supports other loads. If space is limited or the main power supply is far from the Wall Connectors, installing a dedicated load center or single branch circuit may be prudent.

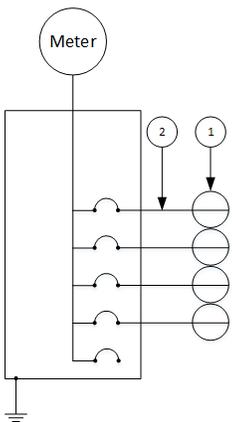
See below for examples of Wall Connector group power management diagrams (one with sub-panel and one without). Each individual Wall Connector in below examples is capable of providing 32 amps when it is the only one in use. As more Wall Connectors begin plugging into vehicles, the system will automatically distribute power based on the total power allocated to the site.

Group Power Management Setup with Sub-Panel



1. Wall Connector
2. 60 A branch circuit
3. 100 A sub-panel / feeder breaker

Group Power Management Setup Without Sub-Panel



1. Wall Connector
2. 60 A branch circuit



Considerations for Group Power Management

Wall Connector group power management is achieved wirelessly.

For optimal performance, Wall Connectors within a group power management network should be installed within view of each other whenever possible.

 **NOTE:** Line of sight is recommended but not required. Wireless communication is capable of reaching around concrete corners but network range may degrade as a result.

Avoid placing Wall Connectors on opposite sides of concrete, masonry, metal studs, and other physical obstructions that would impede Wi-Fi signal strength.

Calculating Group Power Management Requirements for Existing Systems

To calculate power supply requirements per number of Wall Connectors for existing electrical systems, use the following equation:

Available continuous amperage:	Number of Wall Connectors:	Max amperage output per Wall Connector when 100% utilized:
_____	_____	_____
_____ ÷ _____ = _____		

 **NOTE:** Maximum number of Wall Connectors for group power management is 6.

 **NOTE:** When calculating maximum amperage per Wall Connector, 100% utilization must be greater than 6 amps for group power management operation. If maximum amperage is greater than 32 amps, group power management is not necessary.

For large scale sites, consider expected parking time in relation to a 100% utilization rate.

Expected Park Time (hours)	Examples	Recommended Amperage per Wall Connector at 100% Utilization
6+ (long term)	Long term parking, overnight parking	12+ amps
3-5 (medium term)	Workplace, hospitality	24+ amps
1-2 (short term)	Shopping and dining	32+ amps

 **NOTE:** 100% utilization represents the worst case scenario for charging speeds, where the least amount of power would be available for each individual vehicle. In most situations, not all Wall Connectors would be actively charging a vehicle, which enables faster charging for the remaining vehicles.



WALL CONNECTOR LEDS

Light Codes

Startup

Once energized at the circuit breaker, every LED (seven total) on the faceplate will illuminate for up to five seconds.

Other

After startup, waiting for commissioning	Standby, waiting to plug in	Charging in progress	SSID broadcasting, ready to commission	Waiting to charge, communicating with vehicle
Solid yellow (green + red)	Top green solid	Every green streaming	Green pulsing	Blue solid
				

 **NOTE:** If a red dot is displayed, connect to Wall Connector Commissioning or see next table for all error codes.



Error Codes

All red blink codes pause for one second, and then repeat.		
Light Bar	What It Means	Details
No Lights	Power supply issue, charging disabled	Verify that the power supply is turned on. If the issue persists, have an electrician remove the Wall Connector from the wirebox and confirm that voltage is present at the terminal block using a multimeter. Record measurements at terminals of wirebox.
Solid yellow	Wall Connector is ready to be commissioned	See Commissioning on page 39 to commission the Wall Connector.
Solid red	Internal error, charging disabled	Turn the circuit breaker off, wait 5 seconds, and turn it back on. If solid red light remains, document part number and serial number, then contact Tesla Energy.
One (1) red blink	Earth fault circuit interruption due to unsafe current path, charging disabled	Inspect the handle, cable, Wall Connector, and vehicle charge port for damage or signs of water ingress. Contact Tesla Energy if power supply has been checked and confirmed as okay by an electrician.
Two (2) red blinks	Earth assurance fault, high earth resistance detected, charging disabled	Verify that the Wall Connector is properly connected to earth. The earth connection must be bonded in the upstream power supply for proper operation. Check all physical connections, including the wirebox terminals, electrical panel(s), and junction boxes. If connected to a transformer, contact the transformer's manufacturer for direction on how to bond the earth connection. If charging on a IT or TT grid, check ground monitor settings.
Three (3) red blinks	High temperature detected; charging limited or disabled	Verify that Wall Connector is connected to Wi-Fi and updated with the latest available firmware for optimal temperature sensing functionality. Check the faceplate and cable handle for excessive warmth. Have an electrician remove the Wall Connector from the wirebox and verify that the conductors used are sized correctly and that the terminal block is torqued to specification. Connect Wall Connector to Wi-Fi so that firmware can update to most recent version. If firmware does not automatically update, use the Commissioning on page 39 procedure to sign into the commissioning wizard and manually update the firmware. If it does not solve the problem, contact our Customer Support team.
Four (4) red blinks	Internet connection lost, online features disabled	Check for objects that could interfere with the area's Wi-Fi signal strength. Confirm that the local Wi-Fi router is operational. If the Wi-Fi password was changed recently, follow the commissioning process on your mobile device to update the Wi-Fi settings.
Five (5) red blinks	Group power management communication issue, charging reduced	Check for objects that could interfere with the area's Wi-Fi signal strength. Follow the commissioning process on your mobile device to re-link the Wall Connectors for group power management.
Six (6) red blinks	Overvoltage or poor grid quality detected, charging disabled	Connect to Wall Connector with commissioning process to view live voltage info. If the issue persists, have an electrician remove the Wall Connector from the wirebox and confirm that voltage readings are as expected at the terminal block using a multimeter. Record voltage readings at terminals.



WALL CONNECTOR LEDS

All red blink codes pause for one second, and then repeat.

Light Bar	What It Means	Details
Seven (7) red blinks	Vehicle overcurrent detected	Reduce the vehicle's charge current setting. If the issue persists and the attached vehicle is manufactured by Tesla, record the vehicle's VIN and approximate time of the fault and contact Tesla. If the vehicle is not manufactured by Tesla, contact the vehicle's manufacturer.



Electric Vehicle Service Equipment (EVSE) Communication Codes

Light Bar	Meaning	Details
Solid blue	Connected to Vehicle, Electric Vehicle Service Equipment ready but vehicle not requesting charge	Verify vehicle is ready to charge and not blocked by settings like scheduled charging
Blue "breathing"	Establishing communications with vehicle	
Two (2) blue blinks	Connected to Vehicle, Electric Vehicle Service Equipment not ready to charge	Verify device configuration to ensure settings like scheduled charging, Open Charge Point Protocol, or access control are not preventing charging



CHARGING EQUIPMENT LIMITED WARRANTY

Subject to the exclusions and limitations described below, this Charging Equipment Limited Warranty covers the refund, repair or replacement necessary to remedy any manufacturing defects in a Tesla manufactured and supplied Wall Connector that occur under normal personal use for a period of 48 months, or a period of 12 months for normal commercial use*, and a Tesla manufactured and supplied Mobile Connector or charging adapter that occur under normal use for a period of 12 months, starting from the date of invoice to the customer for any charging equipment. Any Tesla manufactured and supplied connector or adapter included in the initial purchase and delivery of a Tesla vehicle by Tesla is covered under the Basic Vehicle Limited Warranty section of the New Vehicle Limited Warranty for 4 years or 50,000 miles (80,000 km), whichever comes first, subject to the terms and conditions of the New Vehicle Limited Warranty.

*For warranty claims specific to Wall Connectors, "commercial use" means Wall Connectors used for purposes other than charging at a residential single family home for daily personal use, which includes, but is not limited to, charging at hotels, offices, parking lots and complexes (including apartment, condominiums and other multi-family or unit dwellings), and retail and other locations that allow (including by being listed online or publicly) for pay-for-use charging, or are located where users other than the owner could reasonably obtain access to the Wall Connector.

This Charging Equipment Limited Warranty does not cover any damage or malfunction directly or indirectly caused by, due to, or resulting from, normal wear or deterioration, abuse, misuse, negligence, accident, lack of or improper installation, use, maintenance, storage or transport, including, but not limited to, any of the following:

Failure to follow the instructions, operation, maintenance and warnings published in the documentation supplied with your Tesla connector or adapter;

External factors, including but not limited to, objects striking the Tesla connector or adapter, faulty or damaged electrical wiring or connections, external electrical faults, junction boxes, circuit breakers, receptacles or power outlets, the environment or an act of God, including, but not limited to, fire, earthquake, water, lightning and other environmental conditions;

General appearance or damage to paint, including chips, scratches, dents and cracks;

Failure to contact Tesla upon discovery of a defect covered by this Charging Equipment Limited Warranty;

Any repair, alteration or modification to the Tesla connector or adapter or any part, or the installation or use of any parts or accessories, made by a person or facility not authorized or certified to do so; and

Lack of or improper installation, repair or maintenance, including use of non-genuine Tesla accessories or parts.

Although Tesla does not require you to perform all maintenance, service or repairs at a Tesla Service Center or Tesla authorized repair facility, this Charging Equipment Limited Warranty may be voided, or coverage may be excluded, due to lack of or improper maintenance, service or repairs. Tesla Service Centers and Tesla authorized repair facilities have special training, expertise, tools and supplies with respect to Tesla connectors and adapters and, in certain cases, may employ the only persons, or be the only facilities authorized or certified to work on Tesla connectors and adapters. Tesla strongly recommends that you have all maintenance, service and repairs done at a Tesla Service Center or Tesla authorized repair facility in order to avoid voiding, or having coverage excluded under, this Charging Equipment Limited Warranty.



LIMITS OF LIABILITY

Subject to any non-excludable statutory guarantees as set out in the Country Specific Disclosures Appendix below and to the maximum extent permitted by law, this Charging Equipment Limited Warranty is the only express warranty made in connection with your Tesla connector or adapter. Implied and express warranties and conditions arising under applicable local laws, federal statute or otherwise, in law or in equity, if any, including, but not limited to, implied warranties and conditions of merchantability or merchantable quality, fitness for a particular purpose, durability, or those arising by a course of dealing or usage of trade, or any warranties against latent or hidden defects, are disclaimed to the fullest extent allowable by your local law, or limited in duration to the term of this Charging Equipment Limited Warranty. To the fullest extent allowable by your local law, the performance of necessary repairs and/or replacement of new, reconditioned, or remanufactured parts by Tesla for the covered defects is the exclusive remedy under this Charging Equipment Limited Warranty or any implied warranties. To the maximum extent permissible under your local law, liability is limited to the reasonable price for repair or replacement of the applicable Tesla connector or adapter, not to exceed the manufacturer's suggested retail price. Replacement may be made with parts of like kind and quality, including non-original manufacturer's parts, or reconditioned or remanufactured parts, as necessary. This Charging Equipment Limited Warranty covers only parts and factory labor necessary to repair but does not include any on-site labor costs related to un-installing, reinstalling or removing the repaired or replacement charging equipment. Parts repaired or replaced, including replacement of a Tesla connector or adapter, under this Charging Equipment Limited Warranty are covered only until the applicable warranty period of this Charging Equipment Limited Warranty ends. Under no circumstances will the original warranty period be extended as a result of your Tesla connector or adapter being repaired or replaced.

Tesla shall not be liable for any defects under this Charging Equipment Limited Warranty that exceed the fair market value of the applicable Tesla connector or adapter at the time immediately preceding the discovery of the defect. In addition, the sum of all benefits payable under this Charging Equipment Limited Warranty shall not exceed the price you paid for the applicable Tesla connector or adapter.

Tesla does not authorize any person or entity to create for it any other obligations or liability in connection with this Charging Equipment Limited Warranty. Subject to local laws and regulations, the decision of whether to repair or replace a part or to use a new, reconditioned or remanufactured part will be made by Tesla, in its sole discretion. Tesla may occasionally offer to pay some or all of the cost of certain repairs that are not covered by this Charging Equipment Limited Warranty, either for specific models or on an ad hoc, case-by-case basis. Tesla reserves the right to do the above at any time without incurring any obligation to make a similar payment to other Tesla charging equipment owners.

To the maximum extent permissible under local law, Tesla hereby disclaims any and all indirect, incidental, special and consequential damages arising out of, or relating to, the Tesla connector or adapter, including, but not limited to, transportation to and from a Tesla Authorized Service Center, loss of the Tesla connector or adapter, loss of vehicle value, loss of time, loss of income, loss of use, loss of personal or commercial property, inconvenience or aggravation, emotional distress or harm, commercial loss (including but not limited to lost profits or earnings), towing charges, bus fares, vehicle rental, service call charges, gasoline expenses, lodging expenses, damage to tow vehicle, and incidental charges such as telephone calls, facsimile transmissions, and mailing expenses.

The above limitations and exclusions shall apply whether your claim is in contract, tort (including negligence and gross negligence), breach of warranty or condition, misrepresentation (whether negligent or otherwise), or otherwise at law or in equity, even if Tesla is advised of the possibility of such damages or such damages are reasonably foreseeable.

Nothing in this Charging Equipment Limited Warranty shall exclude, or in any way limit, Tesla's liability for death or personal injury solely and directly caused by Tesla's negligence, or that of its employees, agents or sub-contractors (as applicable), fraud or fraudulent misrepresentation, or any other liability to the extent the same is proven in a court of competent jurisdiction in a final nonappealable judgment and may not be excluded or limited as a matter of local law.