



Wall Connector 3 Install Manual

Type 2 Handle

Important Safety Information.....	2	Commission the System.....	45
Product Specifications.....	5	Troubleshooting.....	47
Wall Connector Label.....	7	Energy Meter Chime Indication.....	47
Power Supply Options.....	8	Energy Meter LED Indication.....	48
Circuit Breaker Rating / Maximum Output.....	10	TRM not Appearing During Commissioning.....	49
Using Wall Connector.....	12	Negative Site CT Value.....	49
Features.....	13	Group Power Management.....	50
Connectivity.....	13	Group Power Management Overview.....	50
Hosted Access Point.....	13	Breaker and Branch Circuit Setup.....	51
Local Network.....	13	Considerations for Group Power Management.....	52
Residual Current Device (RCD).....	14	Calculating Group Power Management Requirements for Existing Systems.....	52
Ground Monitor Interrupter.....	14	Group Power Management Commissioning Procedure....	52
Power Outages.....	14	Wall Connector LEDs.....	54
Firmware Updates.....	15	Light Codes.....	54
Thermal Monitoring.....	15	Error Codes.....	55
Wall Connector External Components.....	16	Electric Vehicle Service Equipment (EVSE) Communication Codes.....	57
Wall Connector Internal Components.....	17	Charging Equipment Limited Warranty.....	58
In the Box.....	18	Limits of Liability.....	59
Tools.....	19	Claiming Under the Charging Equipment Limited Warranty.....	61
Installation Considerations.....	20	Dispute Resolution.....	63
Installation Steps.....	23		
STEP 1: Sizing and Routing Conductor Wires.....	23		
STEPS 2, 3, 4: Preparing and Mounting the Wirebox...	24		
STEP 5: Stripping and Securing Wires in Wirebox Terminals.....	27		
STEP 6: Securing Main Unit to Wirebox.....	29		
Commissioning Procedure.....	30		
Perform Device Setup.....	31		
Software Updates.....	31		
Complete Registration.....	31		
Address Alerts.....	34		
System Details.....	35		
Optional: Access Controls.....	35		
Optional: Dynamic Power Management.....	35		
Optional: Group Power Management.....	35		
Operating and Error States.....	36		
Dynamic Power Management.....	38		
Dynamic Power Management Overview.....	38		
Required Equipment.....	39		
Install the Energy Meter.....	40		



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: Eaton strongly recommends using only type BR breakers that end in **H** (for instance BR260**H**) for continuous loads such as the Wall Connector.



WARNING: This product needs to be mounted on a flat, vertical surface without significant irregularities. Installations that do not adhere to this requirement are at risk of product failure.



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.



IMPORTANT SAFETY INFORMATION

 **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.

 **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.

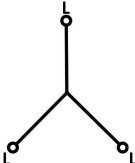
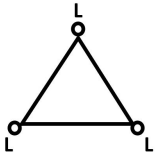


CAUTION: This equipment should be installed and operated with a minimum distance of 20 cm between the radiator and your body.



PRODUCT SPECIFICATIONS

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

Nominal Voltage and Wiring (Service Type)	Single phase configuration 1-phase 230 V L-N 	Wye transformer configuration 3-phase 400 V L-L 	Delta configuration 3-phase 230 V L-L 
Nominal Current and Current Range <i>I_{min} – I_{nominal}(I_{max})</i>	1-20(32) A (adjustable by installer)		
Terminal Blocks	Stranded: 4-25 mm ² , copper only Solid: 1.5-20 mm ² , copper only		
Supported Earthing Scheme	TN/TT/IT		
Nominal Frequency	50/60 Hz		
Cable Length	7.3 m (24 ft)		
Wall Connector Dimensions	Height: 345 mm (13.6 in) Width: 155 mm (6.1 in) Depth: 110 mm (4.3 in)		
Wire Box Bracket Dimensions	Height: 250 mm (9.8 in) Width: 120 mm (4.7 in) Depth: 50 mm (2.0 in)		
Weight (including wirebox)	6.8 kg (15 lb)		
Operating Temperature	-30 °C to 50 °C (-22 °F to 122 °F)		
Storage Temperature	-40 °C to 85 °C (-40 °F to 185 °F)		
Location	Non-restricted access		
Withstand Current Ratings (I _{pk} , I _{cw} & I _{cc})	10kA		
Enclosure Rating	IP 55		
Pollution degree	3		



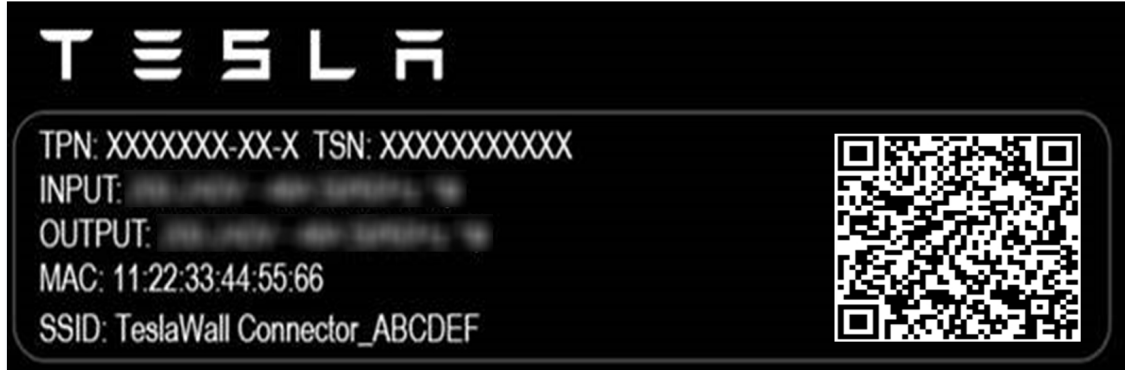
PRODUCT SPECIFICATIONS

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	



WALL CONNECTOR LABEL

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



- 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

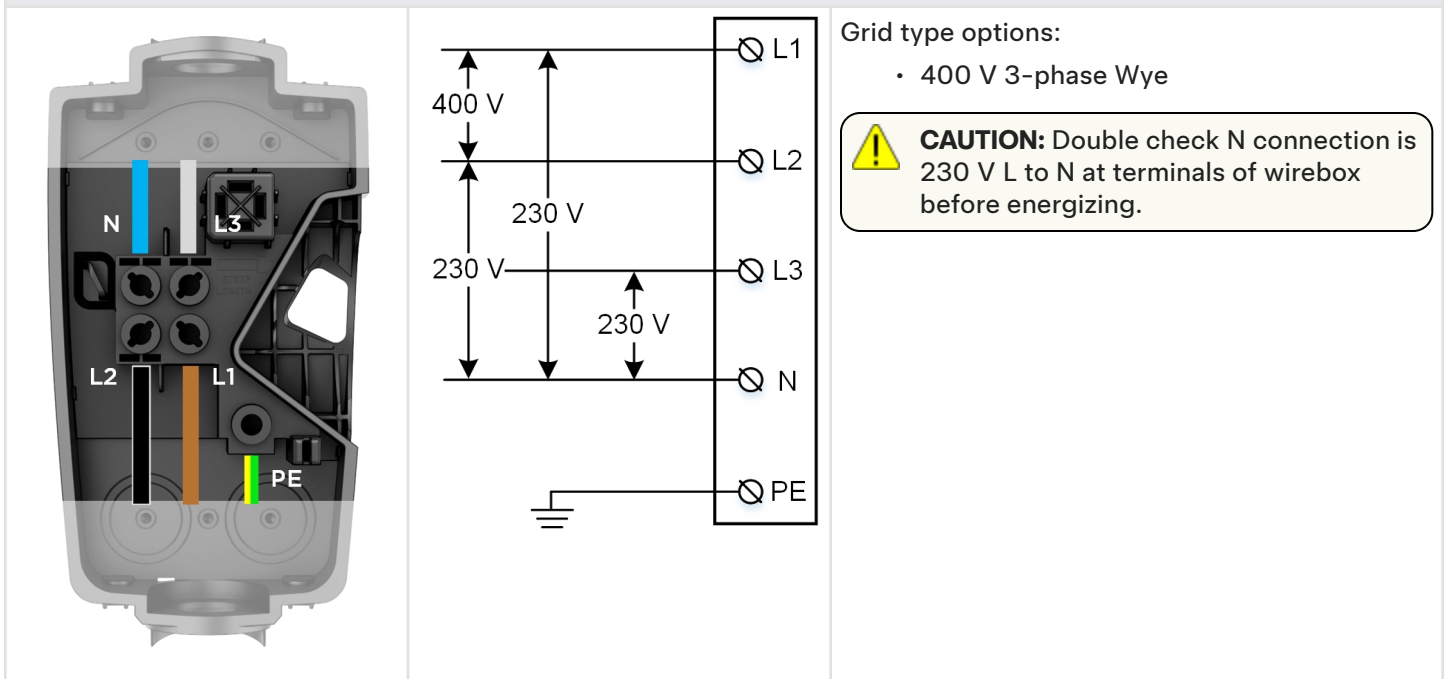
For basic operation, Wall Connector requires an electrical connection to Line 1, Neutral, and Protective Earth (PE) terminals. Connection to Line 2 and Line 3 terminals is supported for some grid types.

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 1. Most Common Installation Option

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



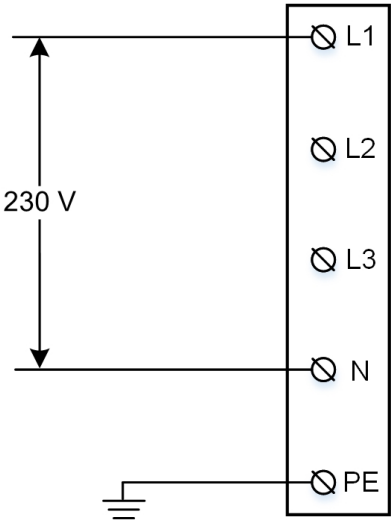
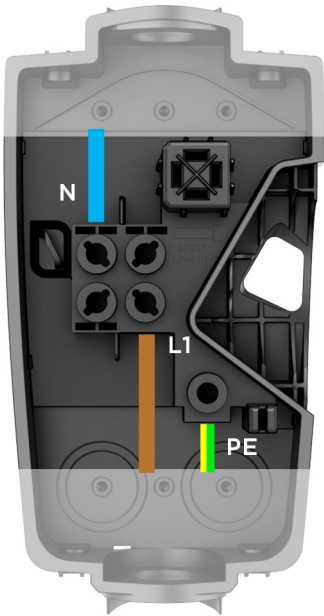
NOTE: Blue is used as the IEC standard for neutral. Some markets may use other colors to symbolize neutral and line conductors.



POWER SUPPLY OPTIONS

Table 2. 2nd Most Common Installation Option

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



Grid type options:

- 230 V Line to Neutral

CAUTION: Double check N connection is 230 V L to N at terminals of wirebox before energizing.



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 6 mA.

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. See the 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. 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.

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

 **NOTE:** See [Commissioning Procedure on page 30](#) for details on how to set maximum amperage.



CIRCUIT BREAKER RATING / MAXIMUM OUTPUT

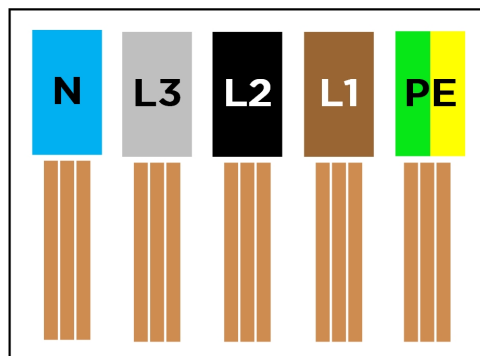
Branch Circuit Conductors and Earth Wire

- 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 the following methods:
 - a. Press the button on the charge handle.
 - b. Press on the charge port door.
 - c. Open the vehicle charge port by 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 to remove the charge handle.



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 earth 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 55](#) 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 30](#).

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.



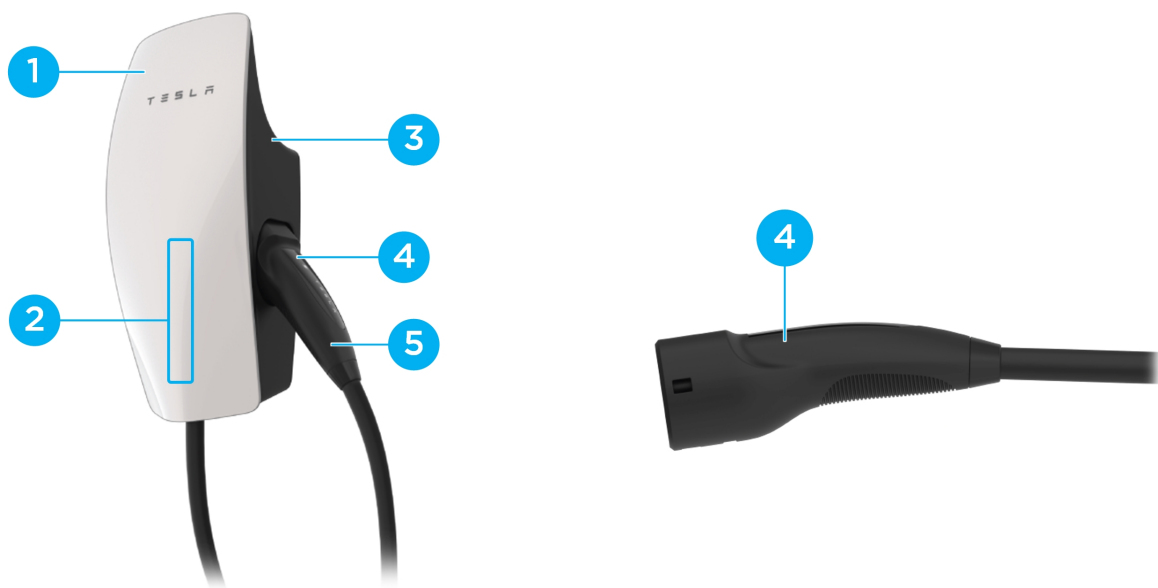
NOTE: See [Error Codes on page 55](#) for full list of error codes.

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

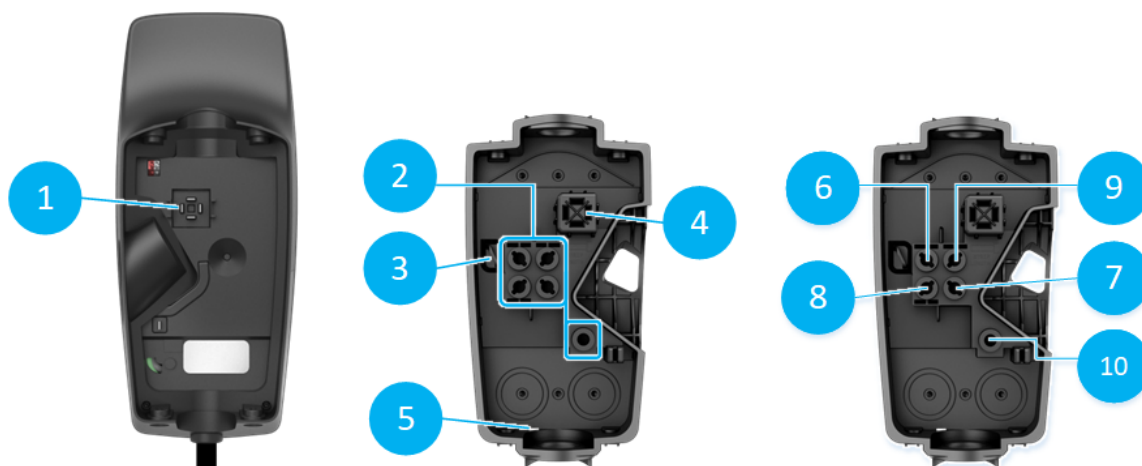
"Wall Connector" refers to the product as a whole.



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



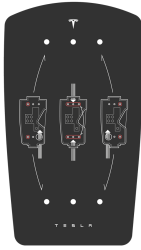
WALL CONNECTOR INTERNAL COMPONENTS



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



IN THE BOX

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

 **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.

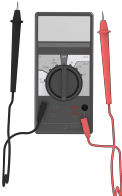
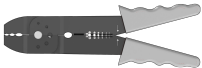
 **NOTE:** Wall plugs are not included. If installing in concrete or other like materials, use 6 mm wall plugs.



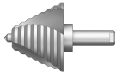
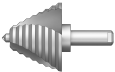
TOOLS

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.

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

Optional Tools

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

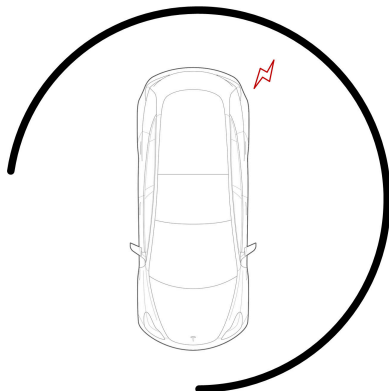


INSTALLATION CONSIDERATIONS

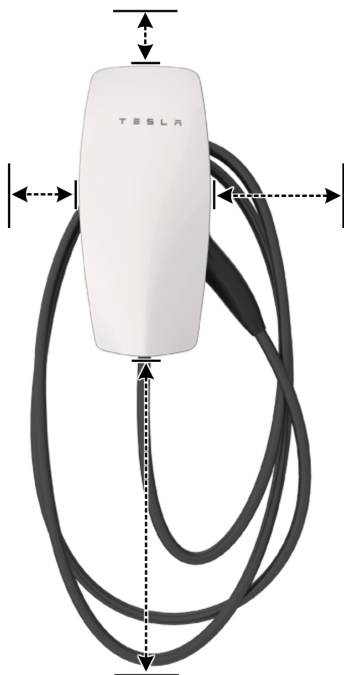
Wall Connector may be installed on any flat, vertical surface capable of supporting its weight (e.g. wall, pedestal, etc.). Wall Connector (wirebox, faceplate, and long cable) weighs 6.8 kg (15 lb).

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.

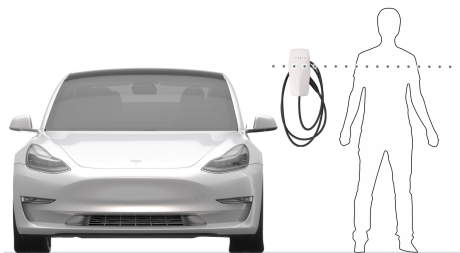


NOTE: If constrained by space, a cable organizer can be installed near the Wall Connector.



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

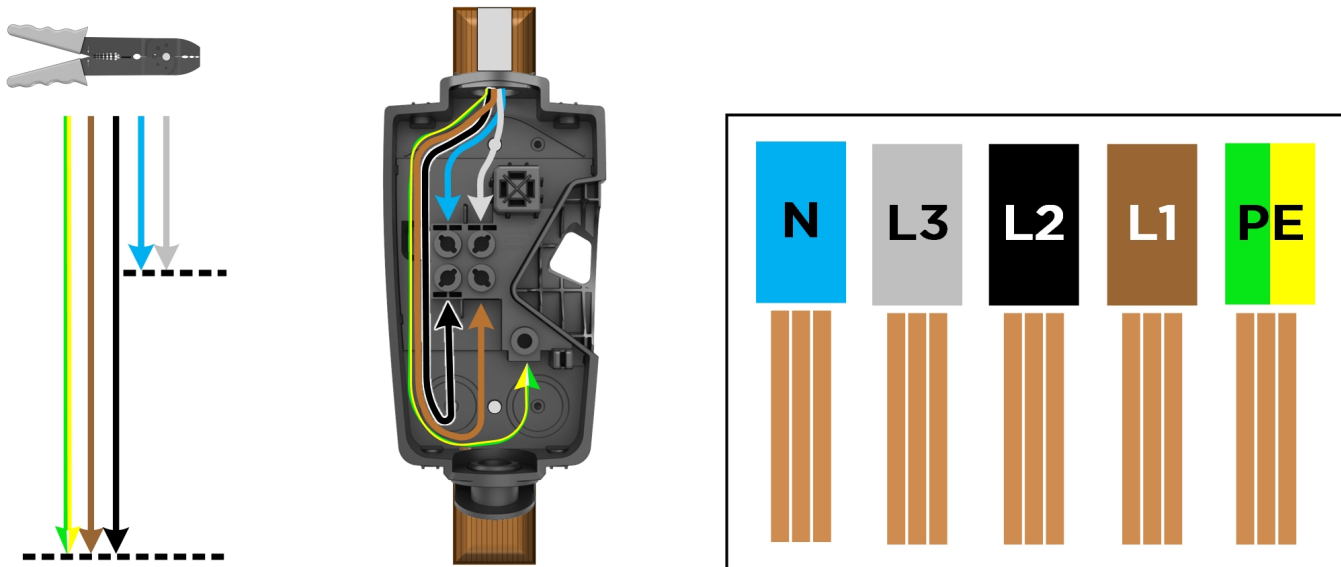
STEP 1: Sizing and Routing Conductor Wires

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

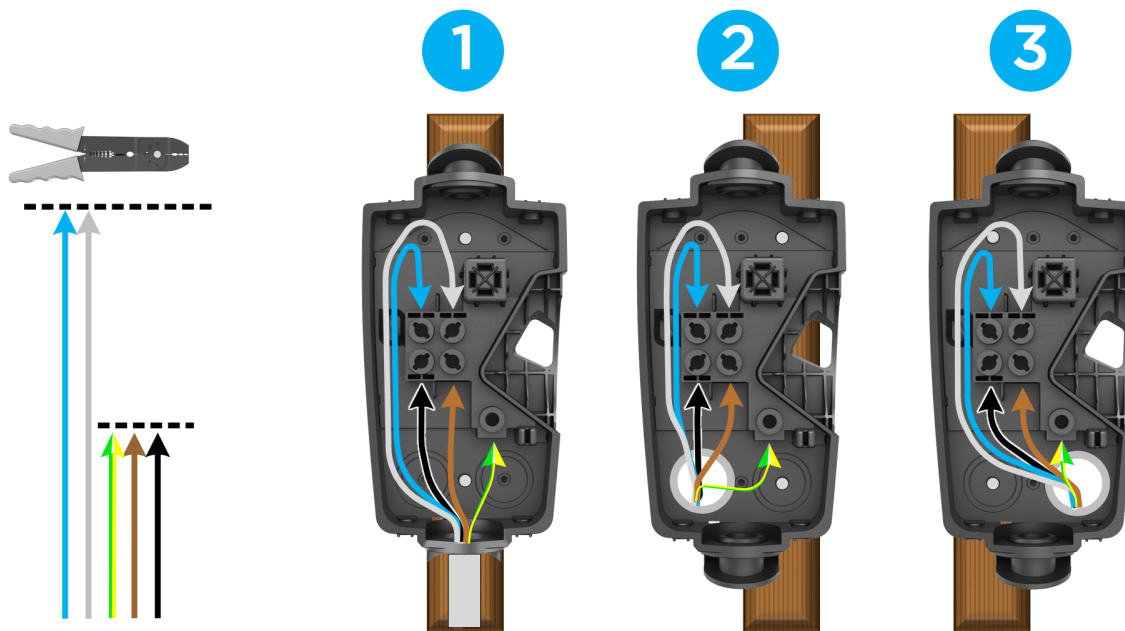


Wire lengths/proportions shown are not to scale.

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 (required when installing outdoors). 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 3. For Top Wire Entry

For Top Entry	1	2	3

Table 4. For Bottom Wire Entry

For Bottom Entry	1	2	3

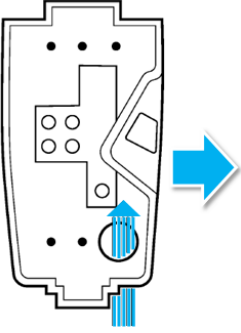
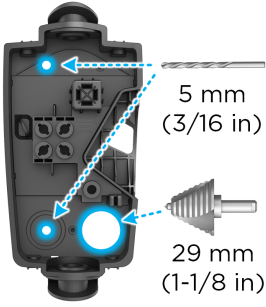
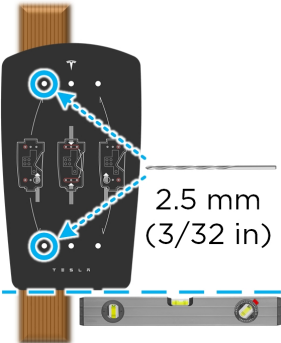
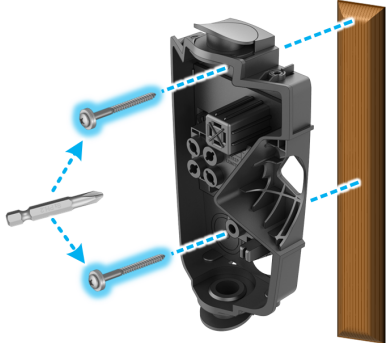
Table 5. For Rear Left Wire Entry

For Rear Left Entry	1	2	3



INSTALLATION STEPS

Table 6. For Rear Right Wire Entry

For Rear Right Entry	1	2	3
			

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.

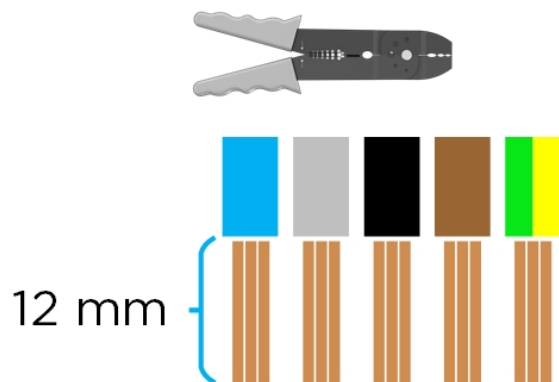
Installer is responsible for providing appropriate glands, fittings, and conduit to secure incoming power supply to Wall Connector wirebox. Top and bottom entry are 28 mm in diameter when sealing plug is removed. If needed, bottom entry can be expanded using a step bit. Do not expand top entry.



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.

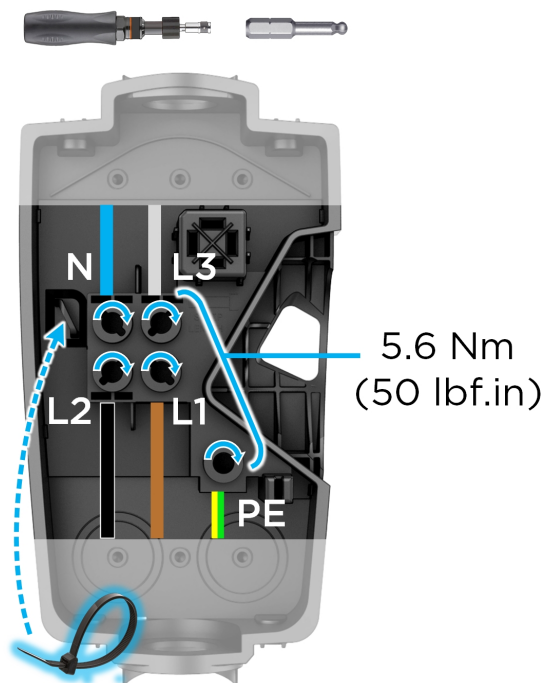


2. Insert each stripped wire into the correct terminal.



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.
 - a. 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.
 - b. 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**.
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**.



COMMISSIONING PROCEDURE

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.

Complete Registration

Installer Registration

Installer registration is an important step for tracking install quality, and it allows the installer (and partner(s) if applicable) to view the site in Powerhub.



NOTE: The site is only created in Powerhub **after** customer registration is completed. Installer registration allows the installing company to view the site in Powerhub, but customer registration must be completed for the site to exist in Powerhub.



NOTE: Once installer registration has been completed, it cannot be changed in Tesla One and instead must be updated by Install Support.

To complete installer registration:

1. Select **Registration > Installer Info** and enter your contact information.
 - a. In the **Company Name** field, verify that the name of the company performing the installation has automatically been filled in. If the company name is not present or is not correct, search for your company to select it.



NOTE:

- The **Company Name** is the field that links a partner to a site, meaning this is the field that allows a company to view the site in Powerhub.
- If you are not a Tesla Certified Installer, please select **Unknown** for the company name field, and then manually type your company name, if applicable.

- b. In the **Email** field, leave the email address of the installer completing the installation. This email address is used to track Tesla Academy training completion and the Pro Score inside Tesla One.
2. To add a partner installer company:
 - a. Select **Add Partner** and search for the partner name to select it.
 - b. Repeat this step if needed (up to two partner companies can be added).



COMMISSIONING PROCEDURE



NOTE: This feature enables another company or entity to access the site in Powerhub. For instance, if another company is performing the installation, sold the system, owns the system, or distributes the hardware in region, they can be given Powerhub access to the site this way.



NOTE: If the site is not shared with partner companies during device setup, it can be shared using Powerhub. See [Site Sharing in the Residential Powerhub User Manual](#) for instructions to share the site with partners.

3. Select **Continue** to proceed to the customer registration.

Site Visibility in Powerhub

Tesla products appear in the Powerhub Fleet Monitoring Portal after Customer Registration is completed, and if the *Company Name* was present during commissioning per the above steps.

If a site is not visible in Powerhub:

1. Make sure the site was registered, meaning the customer can see it in their Tesla App.
2. Contact the company that installed the system (or a partner company with site sharing capability) and ask them to share the site in Powerhub. See [Site Sharing in the Residential Powerhub User Manual](#) for more information.



COMMISSIONING PROCEDURE

Customer Registration

Customer registration allows the customer to view their system in the Tesla app, and the customer's product warranty is activated upon registration.

Tesla has two paths for customer registration:

- **Option 1 (Installer-Led Registration, preferred):**

1. Select **Enter Customer Info**.
2. Enter the customer's email address, then select the **Next** button.
3. Complete the registration form.



NOTE: The customer email address entered during registration is the link between the product and the customer's Tesla account. **Please ensure that the email address is entered correctly and is the one used by the customer for their Tesla account.**

- **Option 2 (Customer-Led Registration):** If the customer is available, select **Show a code** or **Text the customer** to allow the customer to enter their information. Both of these methods open the Tesla app to the *Add Products* page; the customer can also navigate to *Add Products* manually.



NOTE: If customer registration is not completed, the customer will not have access to the system in the mobile app. Ensure customer registration is completed!

Multi-Product Customer Registration

Each Wall Connector is separate, meaning each must be commissioned and registered individually. Failure to fully register **all** products will result in loss of Powerhub visibility, loss of customer app visibility, and unactivated warranties.

If a customer has multiple Tesla devices (Wall Connector(s) and/or Powerwall), all devices can be registered to the same site for simplified viewing in Powerhub (for the installer) and the Tesla app (for the customer).



NOTE:

- This feature can be used in the following installation scenarios:
 - Adding multiple Wall Connectors to a single site
 - Adding Wall Connector to a Powerwall site (or vice versa)
- For complex edge cases, Tesla Support remains available to correct registration issues after the registration process is completed

Options for registering multiple devices to a single site:

- **Option 1 (Installer registers devices, preferred):**

1. Register one of the devices.
2. For each subsequent device:
 - a. Connect to the device in Tesla One and, during the registration step, enter the customer's email address.
 - b. **If the first device was registered within the last 24 hours by the same installer (using the same mobile device), the Add to Recent Site option will appear with the customer's registration information. Select this option.**
 - c. If the **Add to Recent Site** option is not available, select the **Next** button.
 - d. Select the existing site.



COMMISSIONING PROCEDURE



NOTE: Existing sites belonging to the same customer email address **and** the installer's Powerhub instance will be displayed.

e. Select **Register**.

- **Option 2 (Customer registers devices):** Customers can register additional devices to their existing account using the [Add Product](#) page in the Tesla app.

If either of these options fails for any reason, submit an [Energy Service Portal \(ESP\) ticket](#) using your [Partner Portal](#) credentials to have them manually register the additional devices. Provide the following information:

1. Customer Name
2. Customer Address
3. Customer Email (associated with their Tesla Account, matching what was entered by the installer)
4. Already registered equipment DIN (Device Identification Number: Part Number & Serial Number)
5. Additional DINs that need to be registered and added to the existing Site

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

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](#) feature enables Wall Connector to dynamically adjust EV charging power based on live readings of the overall load in the panel. A power 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. For installation and commissioning instructions, see [Dynamic Power Management on page 38](#).

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 50](#).

1. Select **Power Sharing** to connect additional Wall Connectors.



COMMISSIONING PROCEDURE

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
-------	----------



COMMISSIONING PROCEDURE

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.
Request ID cannot be found in error logs.	Send a ticket to the Engineering team.



DYNAMIC POWER MANAGEMENT

Dynamic Power Management Overview

Dynamic Power Management feature 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.

Supported System Configurations

Dynamic Power Management is compatible with single-phase, split-phase, and three-phase configurations where a single Wall Connector is installed. Other system configurations are not supported at this time.

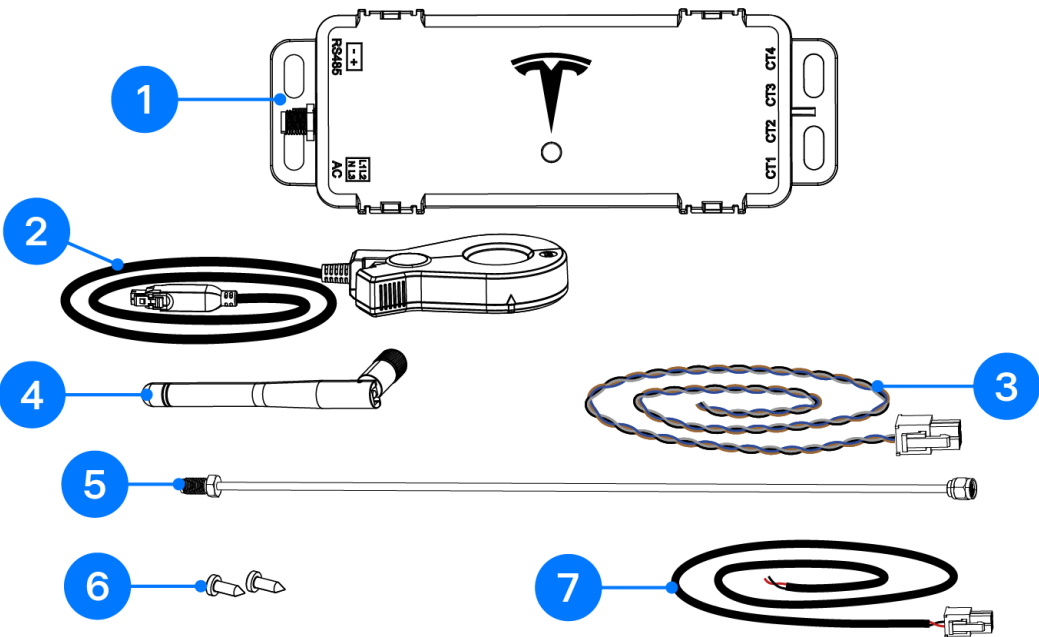


Required Equipment

Tesla Remote Meter

The following kit is required:

- Tesla P/N APAC 2083765-00-x



	Part Description	Quantity
1	Tesla Remote Meter	1
2	Tesla 200 A CT (1.5 m)	1
3	Voltage harness (600 mm)	1
4	External antenna	1
5	Antenna extension	1
6	Fasteners	2
7	RS485 Harness (P/N 2045794-xx-y)	1

 **NOTE:** Neuroio CTs are *not* compatible with Tesla Remote Meter.



DYNAMIC POWER MANAGEMENT

Install type	Requirements
Single-phase with one line conductor	1 CT
Single-phase with two line conductors	2 CT
Three-phase	3 CT



NOTE: If you require more CTs than provided in your region's kit for installation, individual CTs may be purchased (P/N 2033376-xx-y). 3.5m extensions for CTs may also be purchased (P/N 2060713-x-y)

Tesla Remote Meter Accessories



NOTE: These accessories are not included in the Tesla Remote Meter kit. They must be ordered individually wherever required

Part Description	Tesla P/N	Quantity
Tesla 200 A CT (1.5 m)	2033376-xx-y	
CT extension (3.5 m)	2060713-xx-y	1

- Use 16 AWG shielded twisted pair cable to extend RS485 harness as needed.



NOTE: The 600V-rated cable must be used if this wiring is to be run through the same conduit as the power circuits (if not, 300V-rated cable is sufficient).

Install the Energy Meter



CAUTION: Never perform work on live circuits. De-energize the electrical panel before continuing.

1. Attach the energy meter's mounting plate to the inside of the electrical panel, and push the meter onto the plate.



NOTE: The energy meter requires 203 x 203 x 102 mm of space inside the electrical panel. This clearance allows for the space required for routing wiring to the energy meter.



NOTE: The maximum distance the energy meter can be installed from the Wall Connector (wired RS-485 connection) is 120 m.

2. Wire the meter voltage taps:

- a. Connect the voltage line harness leads to a dedicated circuit breaker (not exceeding 20A) of corresponding phase inside the distribution board:

Voltage Harness Port/Wire Color	Distribution Board Connection
A/Red	L1 breaker terminal
B/White	L2 breaker terminal
C/Blue	L3 breaker terminal
N/Black	Neutral

- b. Plug the voltage line harness into the meter.



NOTE: If a dedicated breaker is not available, the voltage line harness can be spliced to existing breakers if allowed in your jurisdiction.



Figure 1. Configuration of remote meter inside panel - Single-phase

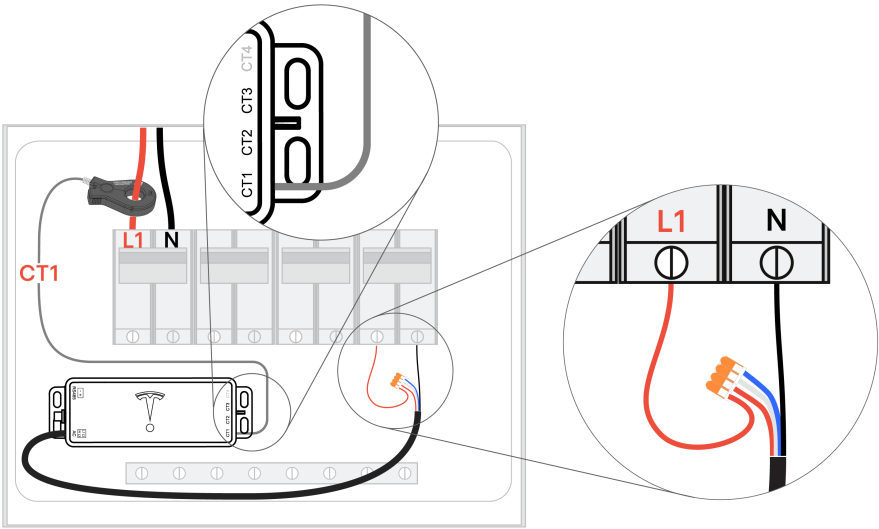
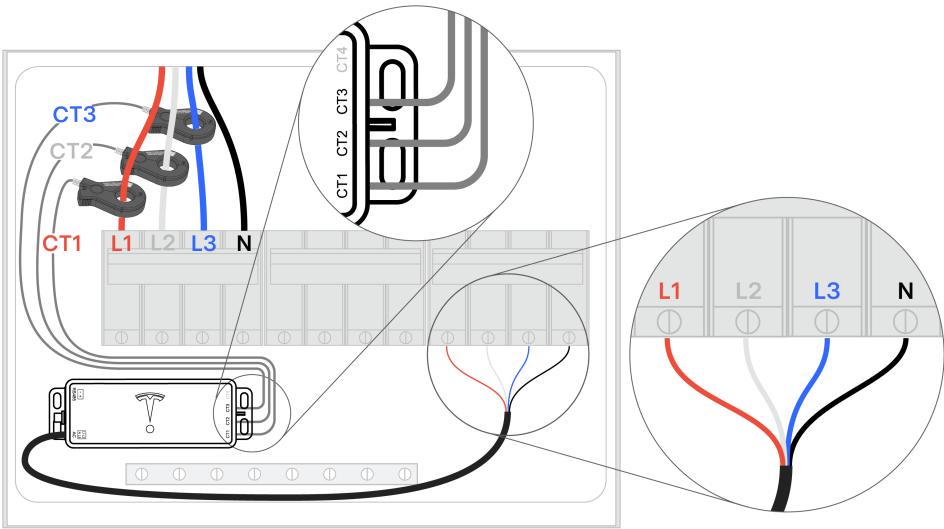


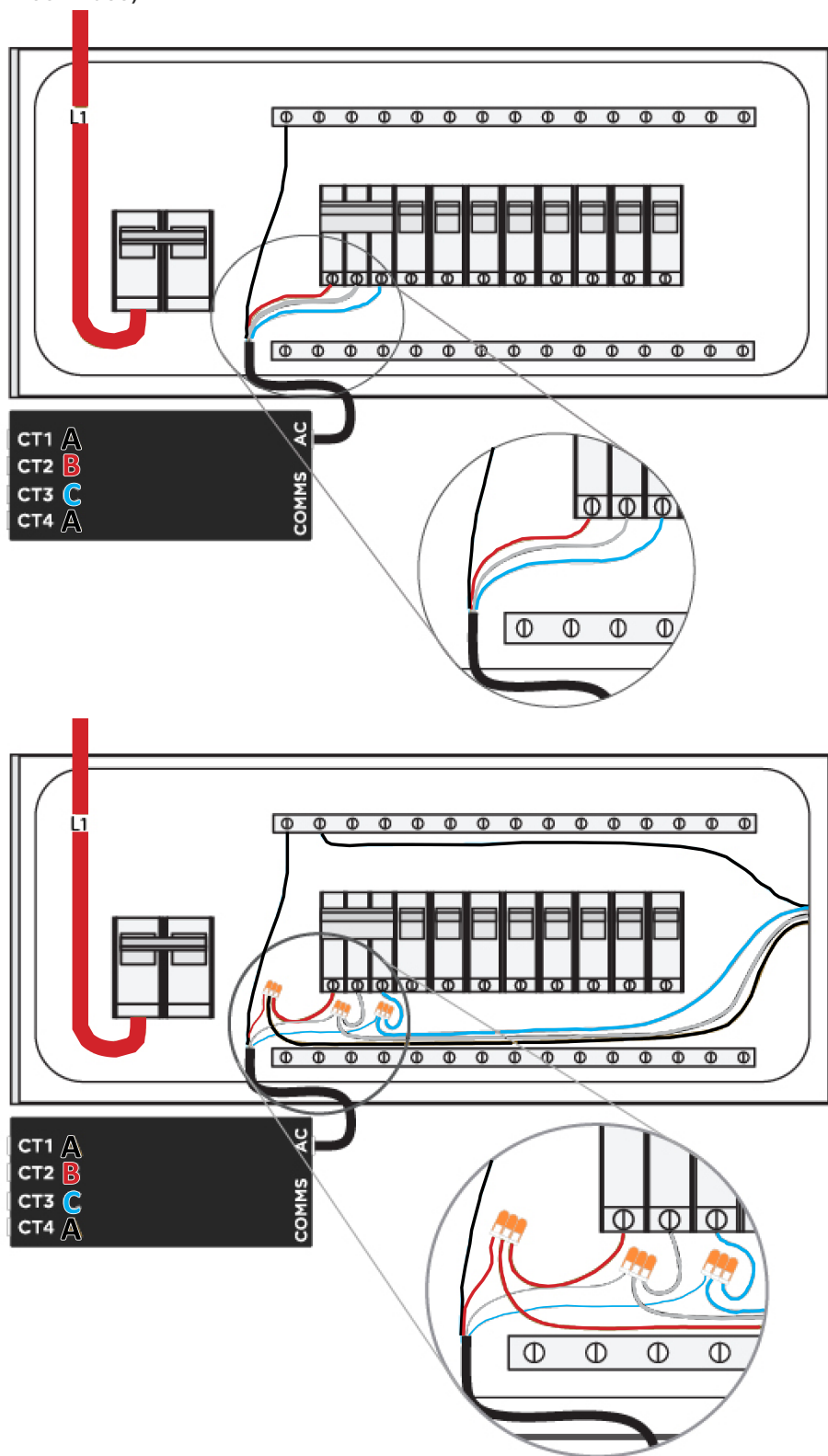
Figure 2. Configuration of remote meter inside panel - Three-phase





DYNAMIC POWER MANAGEMENT

Figure 3. Voltage Line Harness Wired to Dedicated Breaker (Top) or Spliced to Existing Breaker (Bottom) (Three Phase)



3. Install the current transformers (CTs):

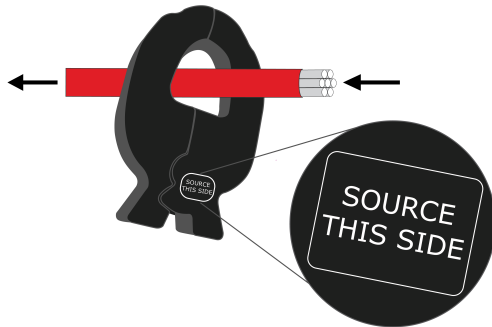
- a. Clip the CTs around Line 1, Line 2, and Line 3 - the main conductors feeding the panel.



DYNAMIC POWER MANAGEMENT

NOTE: Ensure the "Source this Side" label faces away from the breakers, and towards the grid.

Figure 4. CT Orientation in Relation to Power Flow (Label to Face Power Source, in this Case Grid)

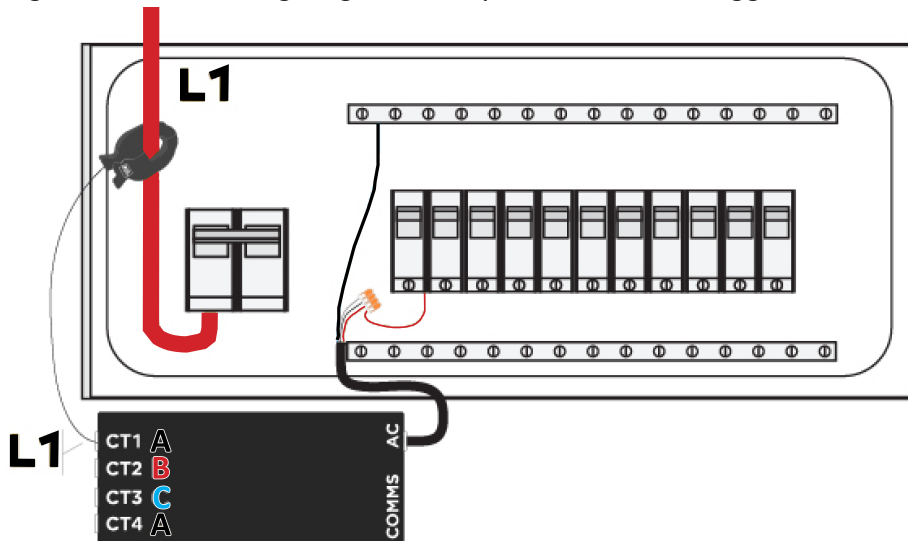


b. Plug the CTs into the meter:

- i. The CT measuring Line 1 can be plugged into either Port 1 or Port 4.
- ii. The CT measuring Line 2 must be plugged into Port 2.
- iii. The CT measuring Line 3 must be plugged into Port 3.

NOTE: It is critical that each CT have the correct voltage reference. Ensure the CT is plugged into the correct port based on the phase it is measuring.

Figure 5. CT Measuring Single Phase System (CT on L1, Plugged into Port 1)



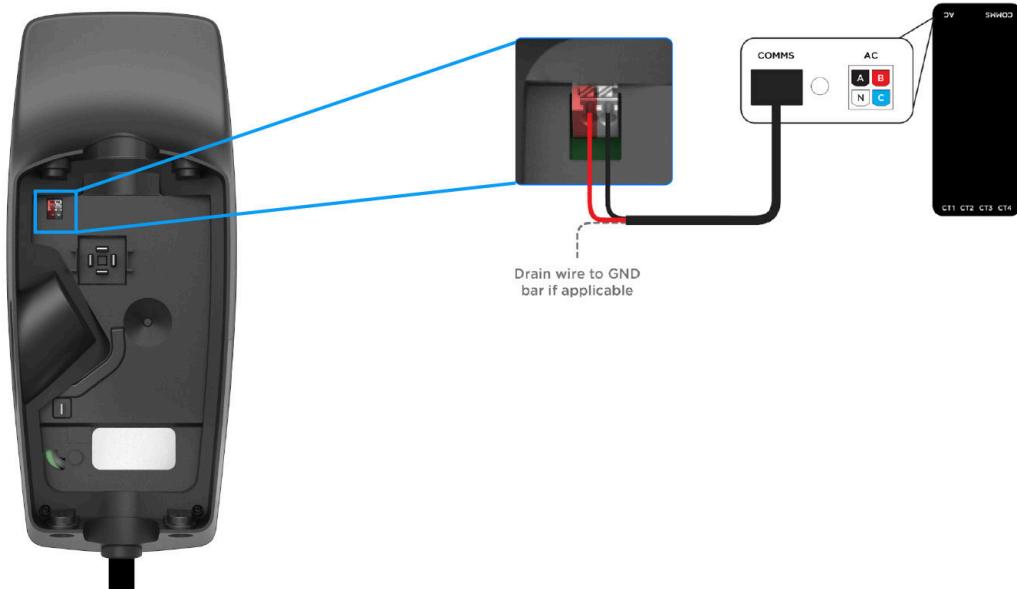
4. Establish a hardwired RS-485 connection between the Energy Meter and Wall Connector using the included 2-conductor wire harness:
 - a. Plug the provided wire harness into the port.
 - b. Extend the harness leads by splicing 1.5 mm² shielded twisted pair cable to the harness.
 - c. If applicable, land the drain wire on the ground bar in the panel.
 - d. Locate the terminals on the backside of Wall Connector.
 - e. Land the wire corresponding to the red lead of the harness to the red port, and the black lead to the white port.



DYNAMIC POWER MANAGEMENT



NOTE: The wiring configuration for RS485 is critical and cannot be reversed after installation, as improper setup may lead to operational failures or equipment damage. Ensure correct polarity and termination during initial installation.



- f. Manage the communication wires so that they are not pinched when mounting the Wall Connector to the wire box.

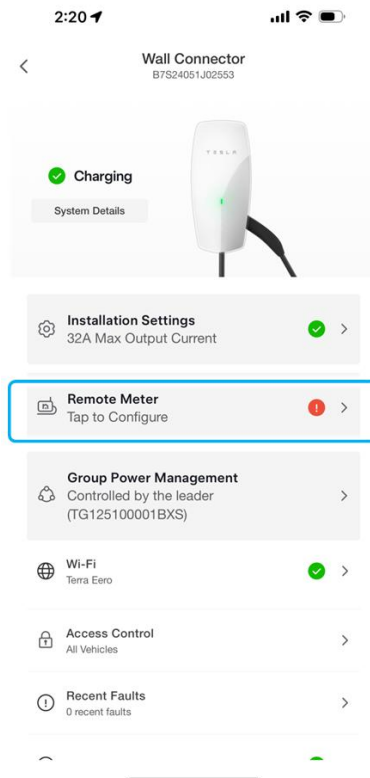


5. Energize the panel and turn on the circuit breaker(s). The energy meter will chime when it has powered on and the meter LED will illuminate in green.



Commission the System

1. Turn off any solar inverter(s) prior to commissioning. Turning off solar production ensures CT function can be confirmed as all CT measurements should be positive when there is no solar.
2. Confirm the breaker feeding the energy meter has been turned on.
3. Follow the standard procedure to commission Wall Connector in Tesla One (see [Wall Connector Device Setup in Tesla One](#) for complete instructions).
4. Ensure Wall Connector has been updated to firmware version **25.42.1** or greater. If Wall Connector is not connected to Wi-Fi, follow the [offline firmware updates procedure](#).
5. Once connected, the energy meter will automatically be detected. Select **Meter** to configure CTs and set the Max Conductor Limit.





DYNAMIC POWER MANAGEMENT

6. Select the energy meter to configure the CTs.

2:22

<

Remote Meter

Meter Configuration

Tesla Remote Meter - EM4252730B10F6

Conductor

>

Max Conductor Limit

Wall Connector will limit charging to prevent exceeding the Max Conductor Limit.

120

A

Enter an integer value between 32 and 200.

Overcurrent protection is your responsibility

Done

7. For each of the connected CTs, select the CT and set the **Location** to **Conductor**.

<

Neurio Meter

15451

VAH4635AB2553

Connected

A

1

Conductor

0.717A

B

2

Conductor

0.717A

B

3

None

C

4

None

Current Transformer 1

14W (0.7A) import

Current Transformer 2

Location

Conductor

Current

0.717A

Power

14.292W

Flip

Current Transformer 3

Current Transformer 4

Back

2:21

<

Tesla Remote Meter

EM4252730B10F6

Connected

A

1

Conductor

33A

B

2

Conductor

33A

B

3

C

4

Current Transformer 1

3,828W (33.0A) export

Current Transformer 2

3,835W (33.0A) export

Current Transformer 3

Current Transformer 4

Done



DYNAMIC POWER MANAGEMENT

- On the **Meter** screen, set the **Max Conductor Limit**. This value should be 80% of the electrical panel's rated limit.
- Test the system by turning on large loads in the panel and ensuring Wall Connector properly adjusts its charge rate. Alternatively, temporarily set the max conductor current lower than the actual limit of the electrical panel being measured. For example, if the conductor limit is 50A, temporarily set it to 32A. Confirm that this current limit is maintained by the Wall Connector by turning on some loads that would exceed the limit.

Troubleshooting

Energy Meter Chime Indication

Table 7. Neurio Meter Chime Information

Tone	Indication	Description
Short Beeps 	Voltage check	One beep for each voltage wire that is connected.
Short Chime 	Energy meter Wi-Fi network started	Energy meter has started hosting its own Wi-Fi network. You can join this network to configure the energy meter and connect it to your own Wi-Fi network.
Long beep 	Voltage warning (conditional)	Indicates that two wires are connected to the same phase.
Long Chimes 	Energy meter joined network successfully	Energy meter successfully joined your Wi-Fi network.
Failing tone 	Energy meter failed to join network	Energy meter was unable to join your Wi-Fi network. Energy meter will now start hosting its own Wi-Fi network again to allow you to re-connect to the energy meter and re-enter the Wi-Fi credentials.



NOTE: TRM does not emit any chimes/audio cues.



Energy Meter LED Indication

Neurio Meter LED Indication

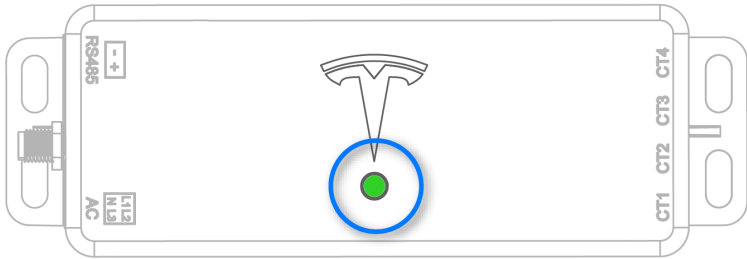
LED	Status	Behavior
Blue, then Green	Flashes blue, then turns solid green (whether or not comms wire is connected)	Energy Meter is Powered On
Green and Red	Flashes green and red	Energy meter is communicating with Wall Connector

Tesla Remote Meter LED

The Tesla Remote Meter has an LED which indicates the following status:

Solid green ON	Powered and operational
----------------	-------------------------

Figure 6. Tesla Remote Meter LED Location





TRM not Appearing During Commissioning

If the Tesla Remote Meter is not appearing during commissioning:

- **Verify Power Supply:** Ensure the meter is properly energized and receiving power.
- **Check RS485 Configuration:** Confirm the RS485 wiring is correctly terminated, with proper polarity and no loose connections.
- **Validate Wi-Fi Connectivity:** Ensure the meter is within range of the WiFi network and that the network is stable and accessible.

Negative Site CT Value

The CT values in the Commissioning Wizard should be positive. If a CT value is negative:

1. Confirm **all** solar production has been turned off. Solar production greater than home consumption may result in negative readings
2. Confirm the CT is oriented correctly, with the "Source this Side" label facing toward the grid. If the CT is not oriented correctly, physically **flip it** or check the **Flip** box in the Commissioning Wizard.



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 40A)
- 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 30](#).

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

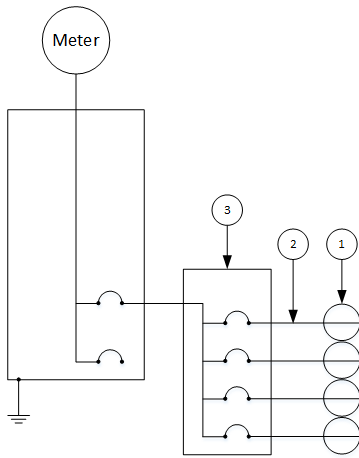


Breaker and Branch Circuit Setup

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.

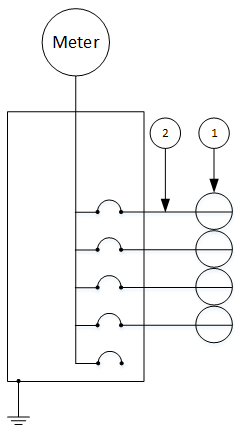
See below for examples of Wall Connector group power management diagrams (one with sub-panel and one without). Each individual Wall Connector in below examples is capable of providing 32A amps when it is the only one in use. As more Wall Connectors begin plugging into vehicles, the system will automatically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

Group Power Management Setup with Sub-Panel



1. Wall Connector
2. Branch circuit
3. Sub-panel / feeder breaker

Group Power Management Setup Without Sub-Panel



1. Wall Connector
2. 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 32A 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.

Group Power Management Commissioning Procedure

- 1. Identify and configure the wall connector.**
One Wall Connector will be the designated leader and provide the configuration and controls for all followers. Install and configure the leader first. Follow the process in the [Commissioning Procedure on page 30](#) to connect and configure the leader.
- 2. Add up to five additional followers from the lead Wall Connector.**
Click on the group power management card in the commissioning interface and add additional Wall Connectors to form a group power management network by wirelessly pairing them to the leader.



GROUP POWER MANAGEMENT



NOTE: When pairing followers, the leader will restart, and you will lose Wi-Fi connection. If your connection does not automatically return, ensure you are still connected to the leader's Wi-Fi connection and refresh the page.

3. Set network limits.

Once all followers have been added, set the network limit. This is the total current that will be intelligently distributed between all devices that have vehicles charging.

The minimum current limit is 6 amps per Wall Connector. A six-unit network will have a minimum limit of 36 amps.

The maximum network limit is the sum of the nameplate ratings of all units in the network, minus one amp. A six-unit network of single-phase Wall Connectors can have a maximum network limit of 287 amps. If 288 amps or more electrical service is available in this scenario, then all units can charge at full power and group power management is not needed. Chat with your electrician for further understanding of the maximum network limit.



NOTE: In the event that your leader and followers have different circuit breakers, you have to individually connect to each of the followers on different breakers via the Wi-Fi broadcast, and then set the correct breaker limit.



NOTE: For example, in a four Wall Connector network with two 60 amp breakers, one 50 amp breaker and one 20 amp breaker where the leader has a 60 amp breaker, individually connect to the Wall Connectors with 50 amp and 20 amp breakers and set their current limit in the commissioning interface using the [Commissioning Procedure on page 30](#).

4. Enable group power management network.

Once your group power management is fully established (followers paired and network limit set), you will have the ability to enable the network.



NOTE: No units in the network will be able to charge the connected vehicles if group power management has not been enabled.



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 30 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 30 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 (including any Tesla Remote Meter as an accessory for Wall Connector to enable dynamic power management) 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 (including any Tesla Remote Meter accessories), "commercial use" means Wall Connectors (and, if applicable, any Tesla Remote Meter accessories) 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

The Charging Equipment Limited Warranty gives you specific legal rights. You may also have other legal rights by statute, which vary from country to country or from state to state. For example, some countries and states do not allow disclaimers of implied warranties or limitations on how long an implied warranty lasts, meaning the limitations in the "Limits of Liability" section may not apply to you. The terms of the Charging Equipment Limited Warranty will apply to the extent permitted by applicable law. For a full description of your legal rights you should refer to the laws applicable in your jurisdiction.

Subject to any non-excludable statutory guarantees as set out in the Country Specific Disclosures Appendix (attached below, if applicable) 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.



LIMITS OF LIABILITY

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.



CLAIMING UNDER THE CHARGING EQUIPMENT LIMITED WARRANTY

Australia

In Australia, the Charging Equipment Limited Warranty is given by Tesla Motors Australia, Pty Ltd.

New Zealand

In New Zealand, the Charging Equipment Limited Warranty is given by Tesla New Zealand ULC.

Claim Procedure

To make a claim under the Charging Equipment Limited Warranty you will need to:

1. Contact Tesla at the address, email address or telephone numbers listed below for the country in which the Wall Connector was purchased.
2. Provide the following information when contacting the Tesla certified installer who sold you your Wall Connector or Tesla:
 - a. your name and contact information;
 - b. proof of the original purchase of your Wall Connector and any subsequent transfer of ownership;
 - c. a description of the alleged defect(s) or LED error codes listed in the Error Codes chapter of this manual and any attempts made to resolve the concerns, including any attempted repairs or services not performed by or on behalf of Tesla.

If you make a claim in accordance with the above claim procedure and a fault with your Wall Connector is covered by the terms of the Charging Equipment Limited Warranty, Tesla will bear the cost of repairs to or replacement of your Wall Connector as well as transport and re-installation costs of the Wall Connector and the costs of any at-home or on-site inspection of the Wall Connector that was required to diagnose the fault. All other expenses of claiming under the Charging Equipment Limited Warranty will be borne by you. For the avoidance of doubt, the costs of any at-home or on-site inspection, repairs to and replacement of the Wall Connector will be borne by you if any reported concern with your Wall Connector is not covered by the Charging Equipment Limited Warranty or if a warrantable fault is found but you elect to have the fault rectified by a third party that is not approved by Tesla, unless you are entitled to those costs under applicable laws, including without limitation the Australian Consumer Law and the Consumer Guarantees Act 1993 (NZ).

If your Wall Connector is replaced under the Charging Equipment Limited Warranty, the remainder of the original warranty period under that warranty will apply to the replacement product, subject to any non-excludable rights and remedies you have under local laws in your country or region in respect of the repaired or replacement product.

Contact Details

Tesla Motors Australia, Pty Ltd

Level 14, 15 Blue Street

North Sydney NSW 2060

Phone: 1800 646 952 (Toll Free)

Tesla New Zealand ULC



CLAIMING UNDER THE CHARGING EQUIPMENT LIMITED WARRANTY

501 Karangahape Road

Auckland, 1010

New Zealand

Phone: 0800 005 431 (Toll free)



DISPUTE RESOLUTION

Tesla requires that you first provide written notification of any manufacturing defect within a reasonable time, and within the applicable coverage period specified in this Charging Equipment Limited Warranty, and allow Tesla an opportunity to make any needed repairs before submitting a dispute to our dispute settlement program (described below). Please send written notification on dispute resolution to the following address:

Vehicles registered in Australia:

Tesla Motors Australia, Pty Ltd

ACN 142 889 816

Level 14, 15 Blue Street

North Sydney NSW 2060, Australia

Phone: 1800 646 952

Please include the following information:

- Tesla Part Number and Serial Number
- Your name and contact information
- Name and location of the Tesla Store and/or Tesla Service Center nearest to you
- Description of the defect
- History of the attempts you have made with Tesla to resolve the concern, or of any repairs or services that were not performed by Tesla
- In the event any disputes, differences, or controversies arise between you and Tesla related to this Charging Equipment Limited Warranty, Tesla will explore all possibilities for an amicable settlement