

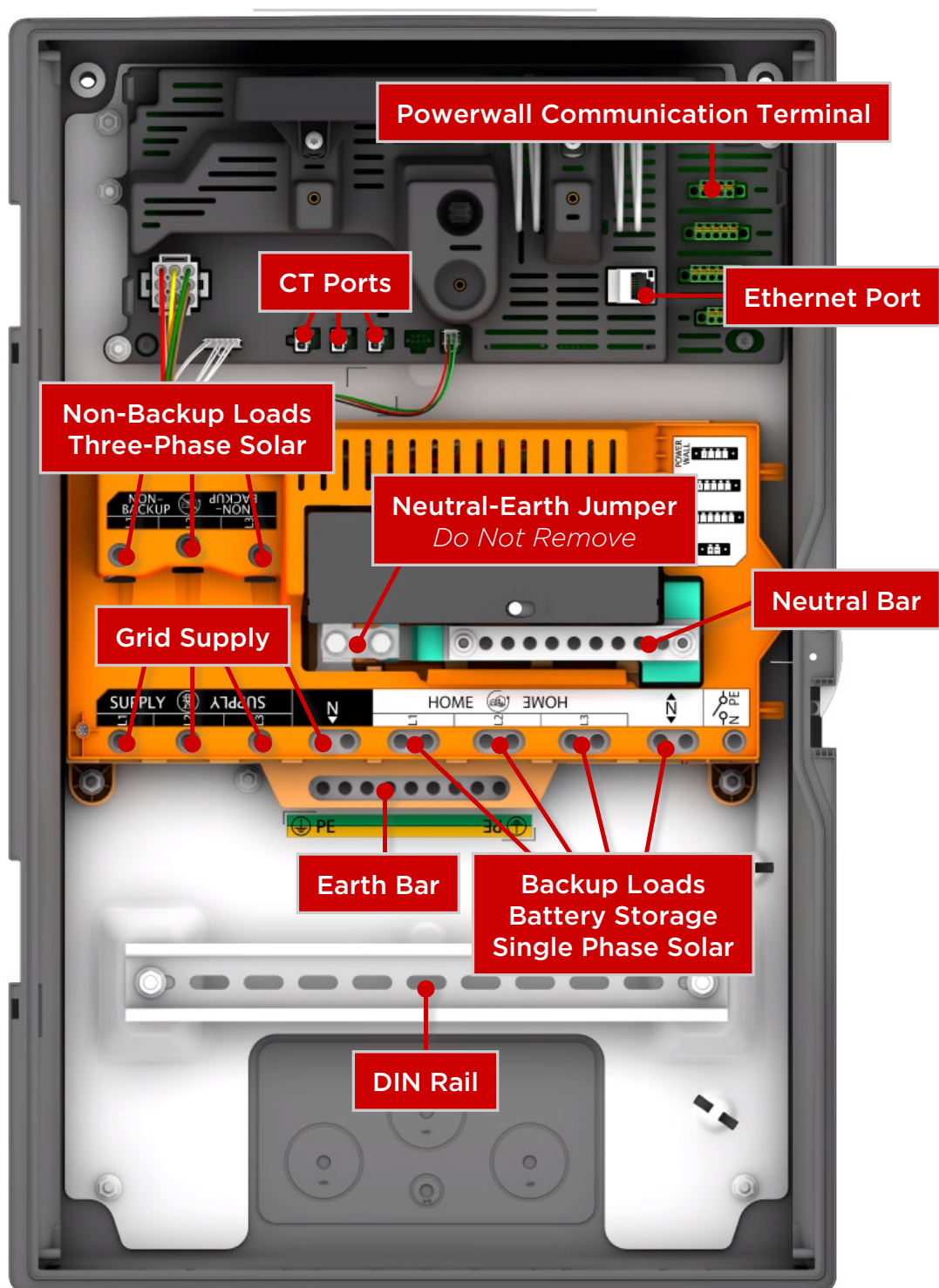


POWERWALL 2 AC INSTALLATION QUICK GUIDE



[View Powerwall 2 AC Installation Manual](#)

BACKUP GATEWAY 2 OVERVIEW



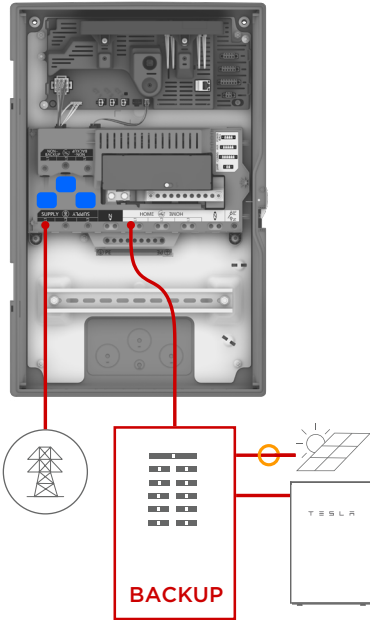
SYSTEM CONFIGURATIONS

WHOLE HOME BACKUP

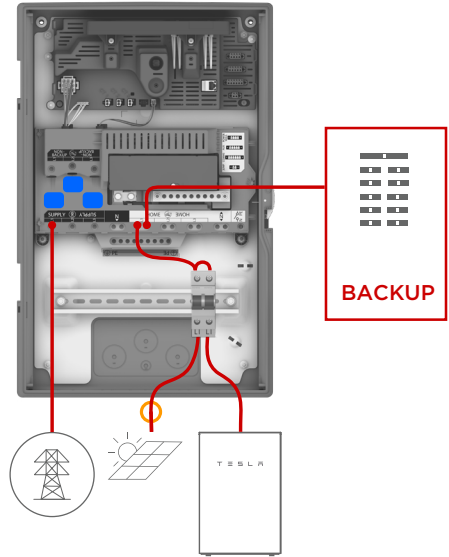
All single phase and/or solar loads can be supported by Powerwall

Whole **Site** monitored with integrated CTs 

All **Solar** monitored with auxiliary solar CT 



Powerwall and Solar in existing panel



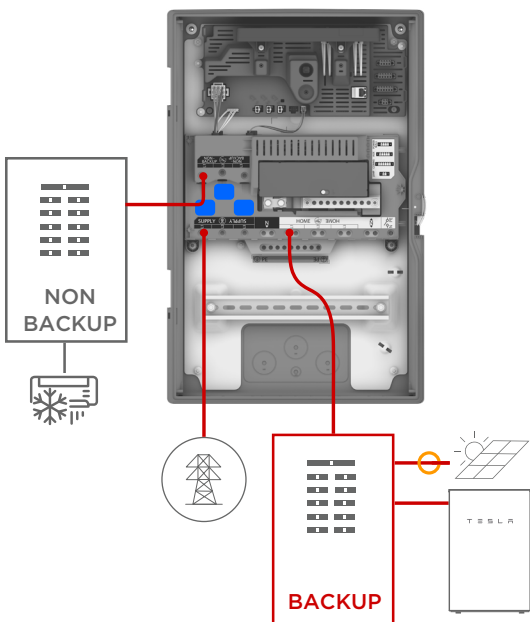
Powerwall and Solar on DIN Rail

PARTIAL HOME BACKUP

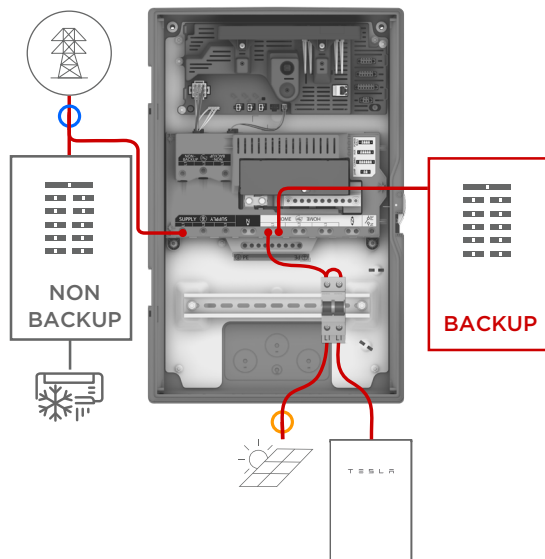
Three-phase or large loads and/or solar cannot be supported by Powerwall

Whole **Site** monitored with integrated CTs  or auxiliary site CT 

All **Solar** monitored with auxiliary solar CT 



Non-backup loads downstream from Gateway

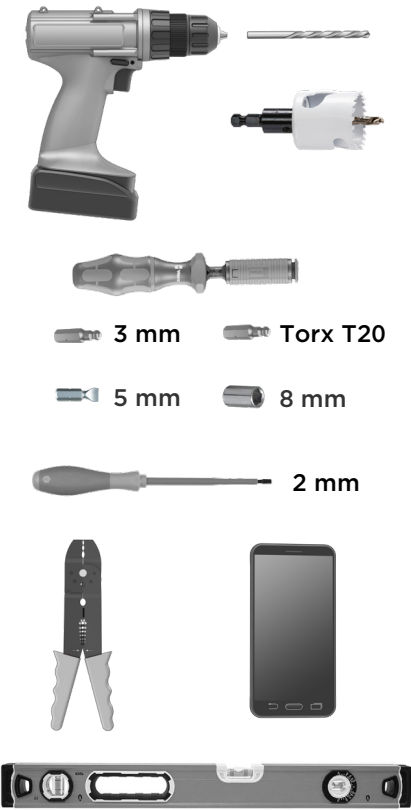


Non-backup loads upstream from Gateway



See **System Wiring Diagrams** in the *Installation Manual* for detailed wiring diagrams of common configurations

REQUIRED TOOLS

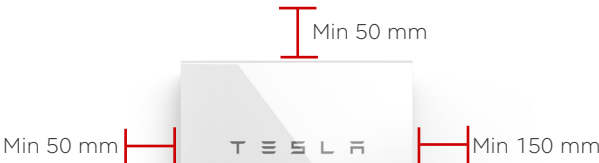
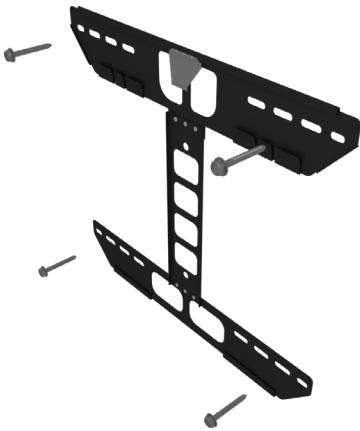


SUGGESTED TOOLS

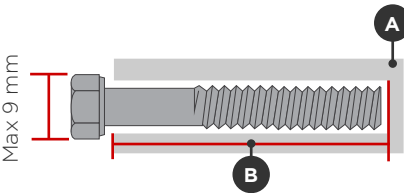


MOUNT POWERWALL

1

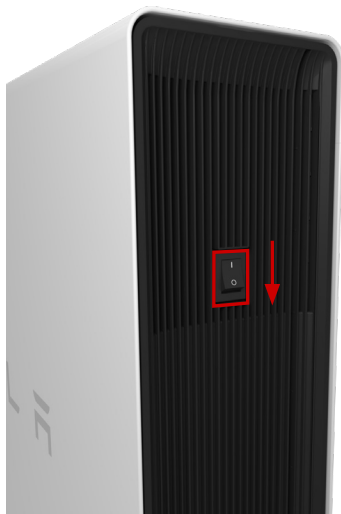


Single Powerwall
Clearance Requirements



A Material	B Minimum Embedment
Wood Studs	64 mm
Metal Studs	3 threads beyond stud / backing
Concrete / Masonry	50 mm
Channel Strut	64 mm into wood studs 3 threads beyond metal studs

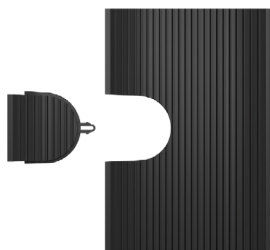
2



3



4



OR

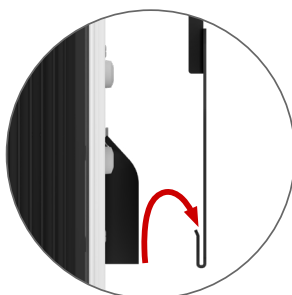
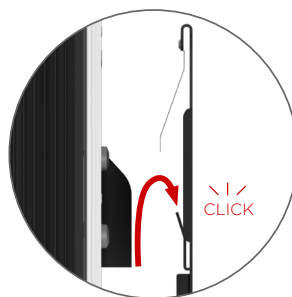
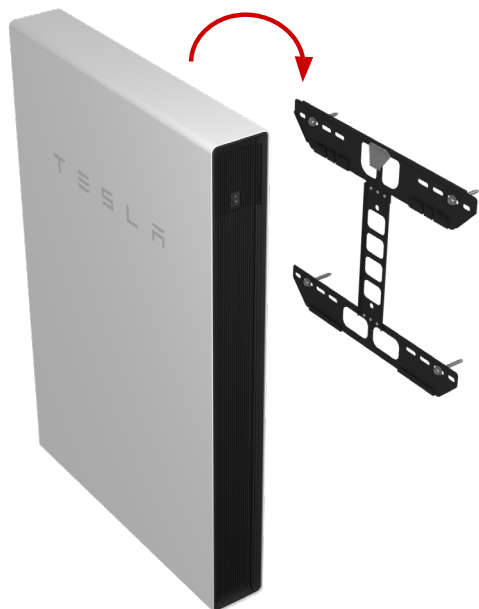


Side Cable Entry



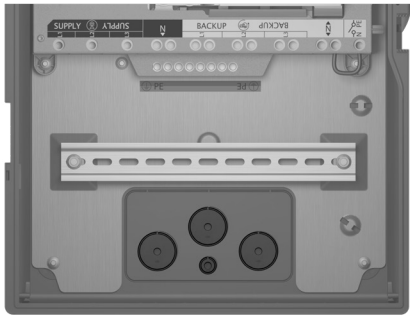
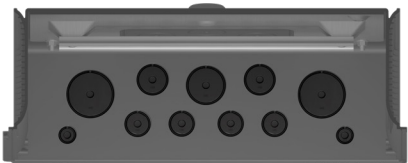
Rear Cable Entry

5



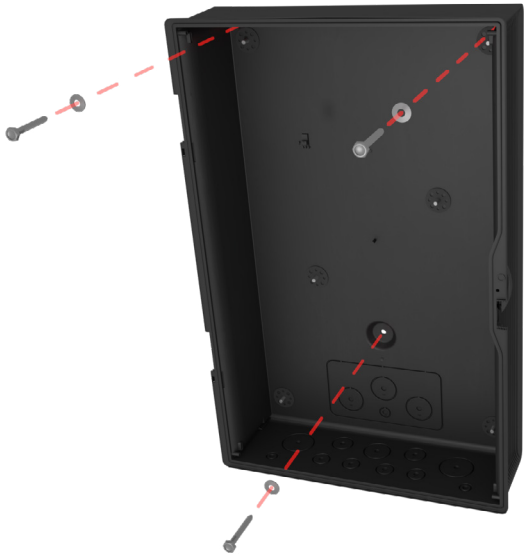
MOUNT THE BACKUP GATEWAY

6



- M40
- M25
- M32
- M20
- M12

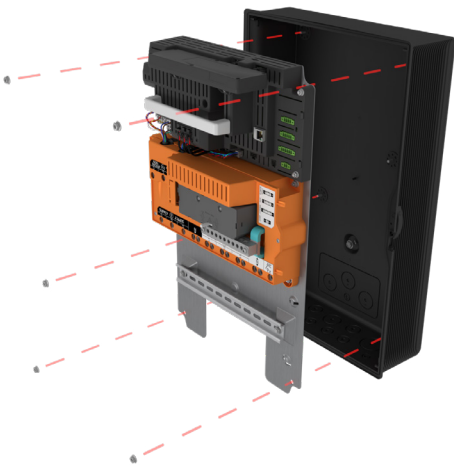
7



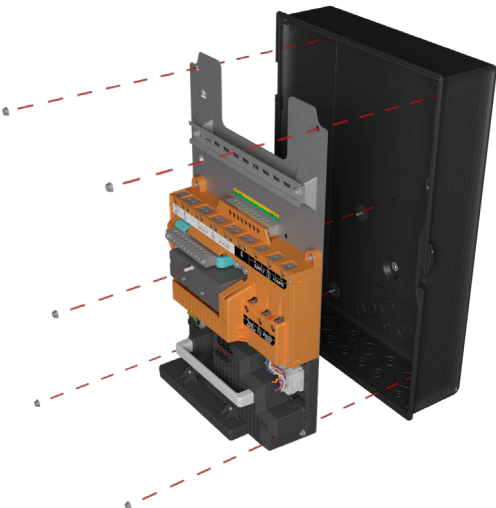
x3 included
Sealing washers must be installed to maintain IP55 rating when installed outside

8

- x5 included
- 8 mm
- 6 Nm

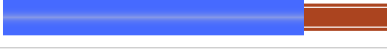


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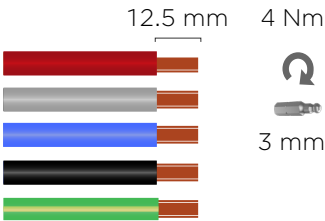


MAKE BACKUP GATEWAY AC POWER CONNECTIONS

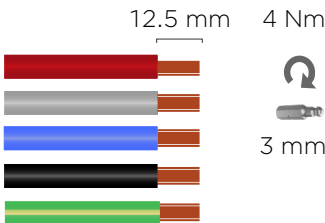
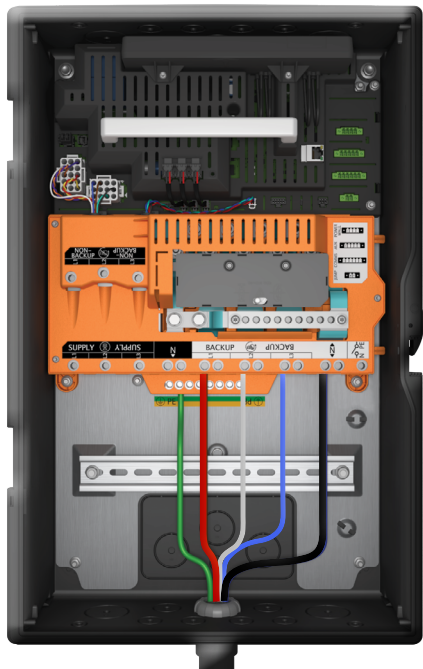
9

	2.5 - 35 mm ² (max)
	2.5 - 35 mm ² (max)
	2.5 - 35 mm ² (max)
	2.5 - 25 mm ² (max)
	2.5 - 25 mm ² (max)

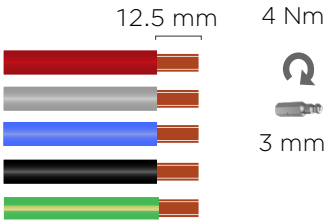
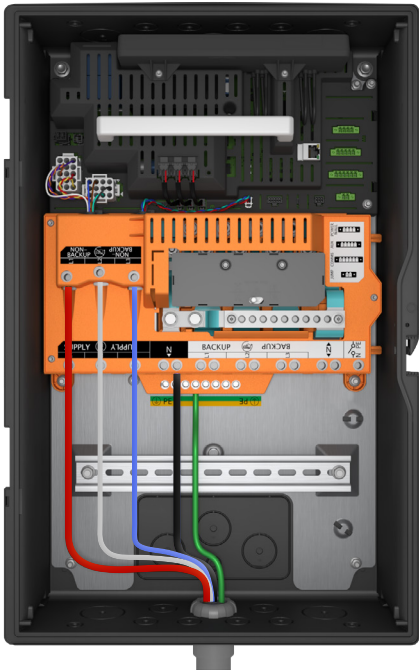
SUPPLY SIDE CONDUCTORS



BACKUP LOAD PANEL CONDUCTORS

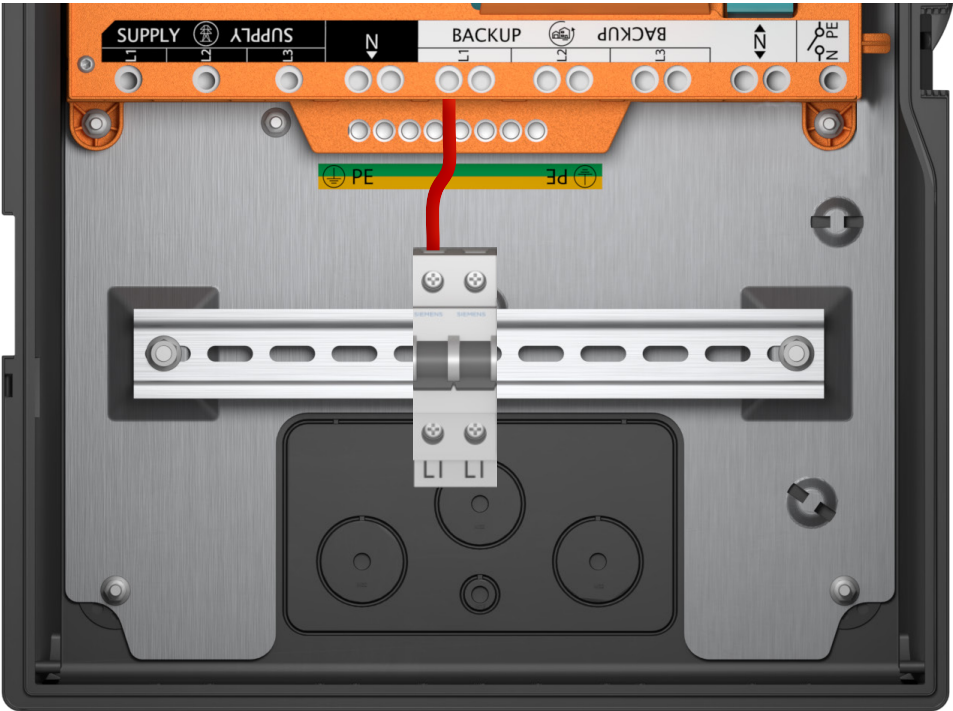


NON-BACKUP
PANEL CONDUCTORS



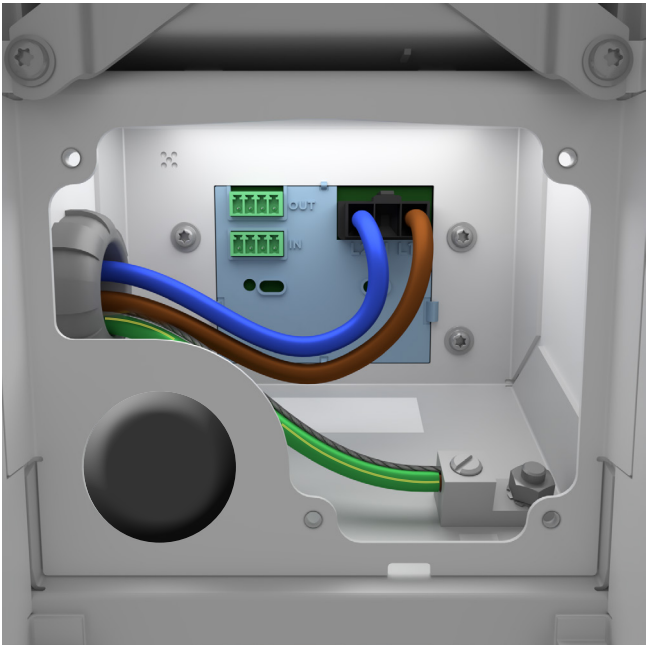
INSTALL GENERATION BREAKERS

10



MAKE POWERWALL AC POWER CONNECTIONS

11

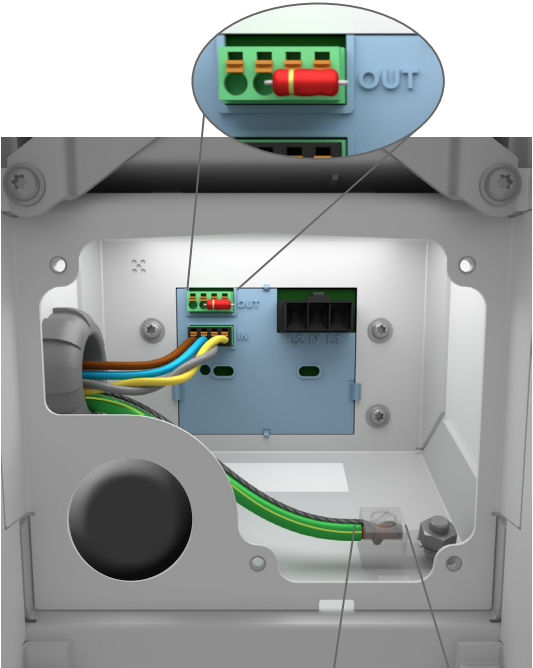
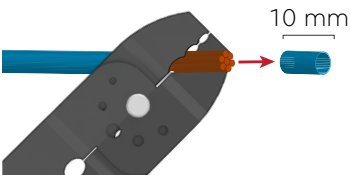


CONNECT COMMUNICATION WIRING

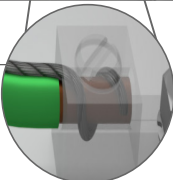
12

12V +		1.0 - 1.5 mm ²
GND (Earth)		1.0 - 1.5 mm ²
CN + (CAN HI)*		0.2 - 1.5 mm ²
CN - (CAN LO)*		0.2 - 1.5 mm ²

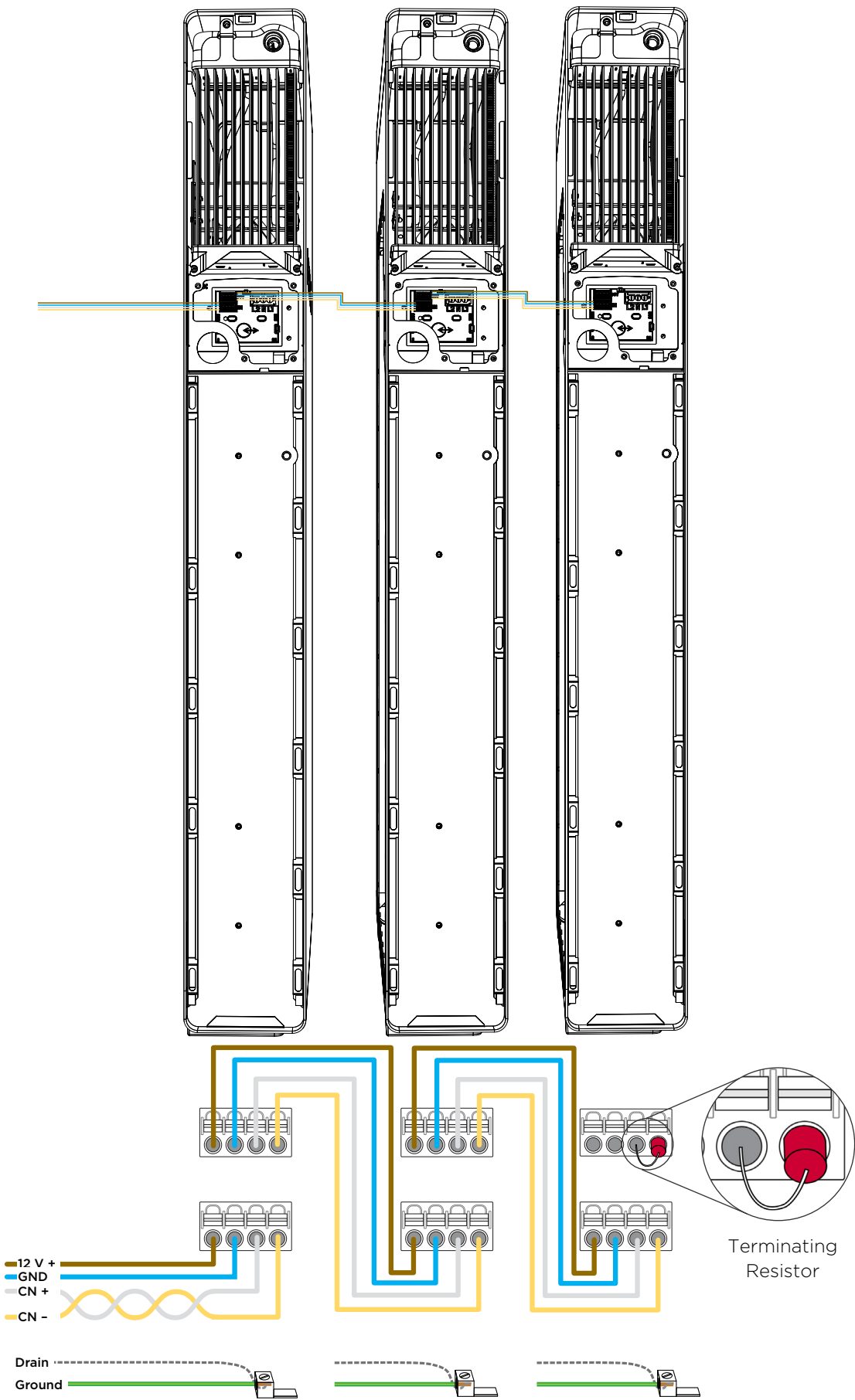
*STP or CAT7 min



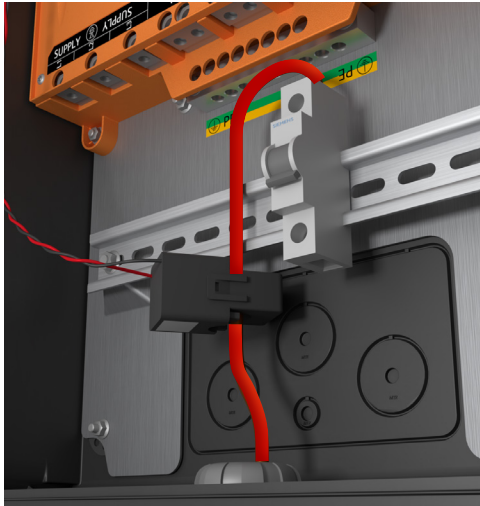
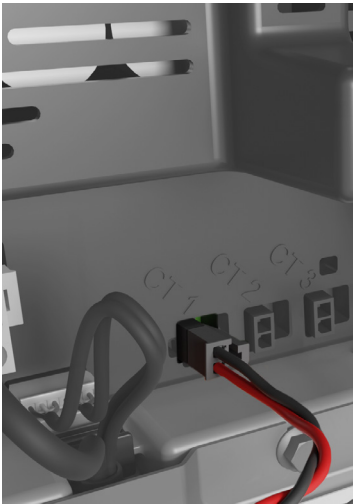
Drain Wire



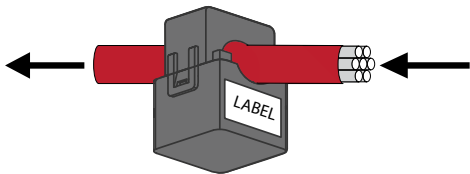
COMMUNICATION WIRING EXAMPLE FOR MULTIPLE POWERWALLS



SOLAR METERING



CT ORIENTATION



Solar CT → Label toward solar inverter



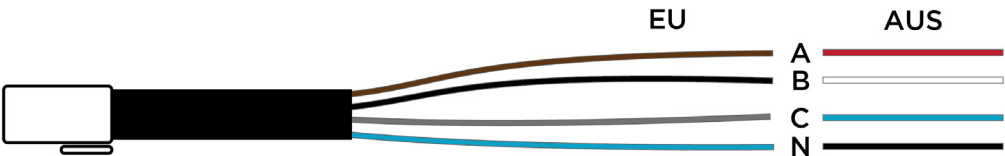
See the *Installation Manual* for a detailed overview of metering, system wiring diagrams with meter placement, and instructions for installing a remote Neurio meter.

REMOTE SITE METERING

Required for Home or Solar Loads upstream of Gateway

See Powerwall with Backup Gateway 2 Installation Manual for instructions to install a remote meter.

Note: The voltage line harness in the Neurio meter kit uses EU wire colors. These EU colors correspond to standard AUS wire colors as shown below. Use these wire color equivalents when connecting or extending the voltage line harness.

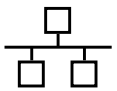


Meter Phase	EU Wire Color	AUS Wire Color
A	Brown	Red
B	Black	White
C	Gray	Blue
N	Blue	Black

CONNECT BACKUP GATEWAY TO THE INTERNET

14

Ethernet



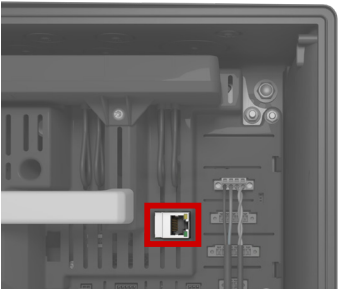
AND

2.4 GHz / 5 GHz Wi-Fi



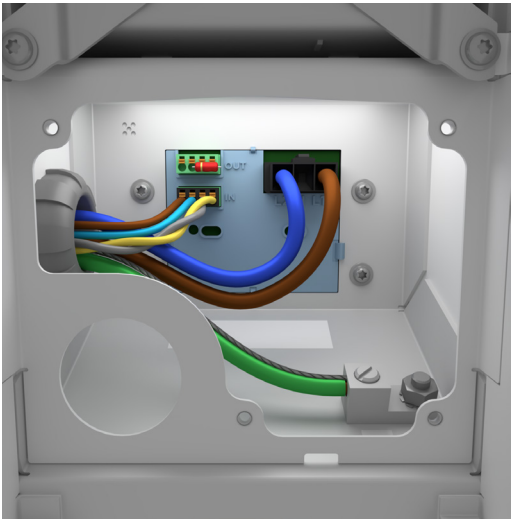
HOMEOWNER NETWORK

HOMEOWNER PASSWORD

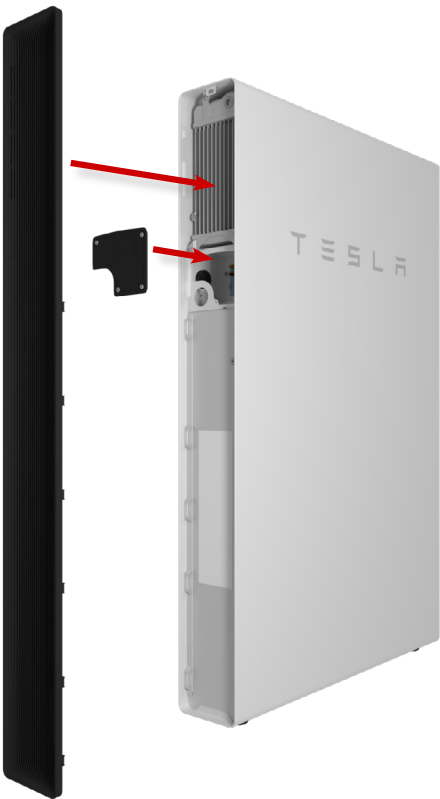


CLOSE WIRING COMPARTMENTS AND POWER ON

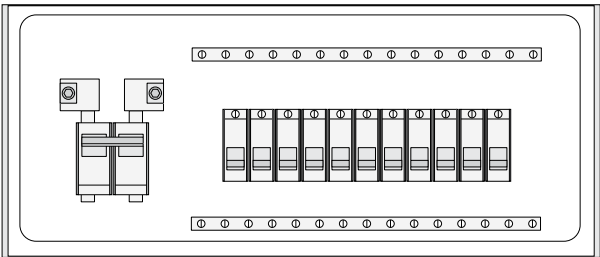
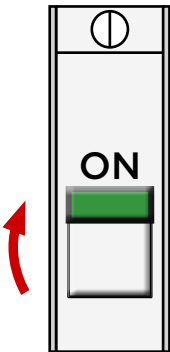
15



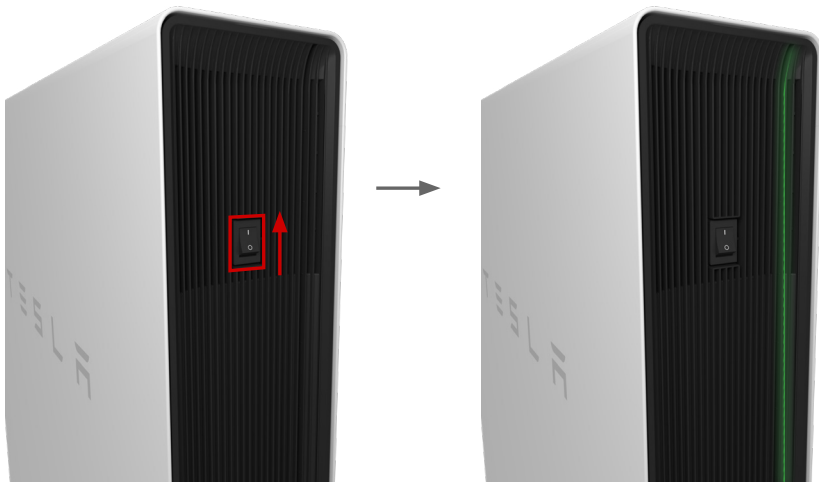
16



17



18



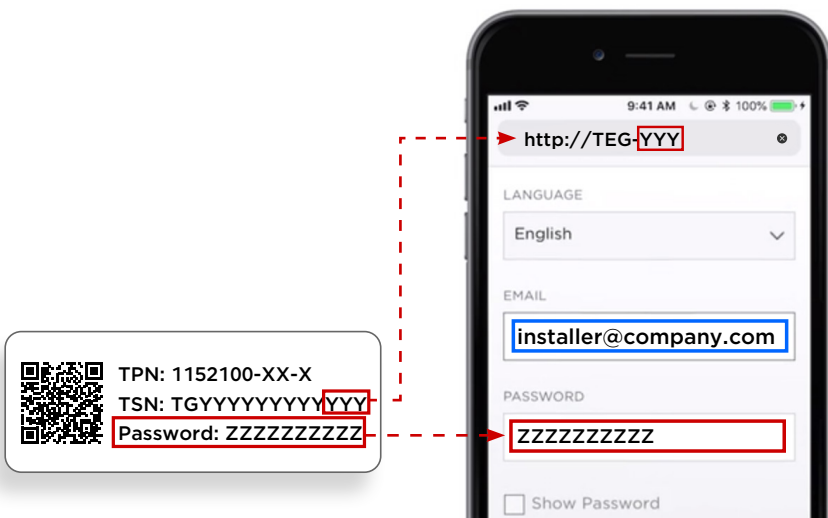
COMMISSION THE SYSTEM

19



Join TEG-YYY Wi-Fi

20



Use **Chrome: Incognito** mode or **Safari: Private Browsing** mode.

Work in one browser tab only.

For security message **Your connection is not private**, select **Advanced** and **Proceed**.

For **Error: Bad Credentials**, select **FORGOT PASSWORD** to reset password.

For **Error: Login Error (Cannot Start Wizard)**, select **Click for More** and tick the **Force Launch Wizard** option. Try again.

If experiencing other issues, refresh the web page.

If issues persist, reboot Gateway using **RESET** button.

POST-INSTALLATION HEALTH CHECK

BEFORE BEGINNING

1. Wait 20 minutes after commissioning for the system to precondition (noise from pumps and fans may be heard).
2. Ensure the landing page does not show any warnings.
3. Ensure the backup reserve is set below current state of energy.

LOAD AND SOLAR CHECK

1. Compare SOLAR readings on landing page and on inverter display. A difference of >10% is unusual.
2. Switch on load with known power consumption. Confirm LOAD readings on landing page increase accordingly.

BACKUP CHECK

1. Open main breaker upstream from Gateway to DISCONNECT from grid. Transition time to backup during this test should be less than a second (times can vary in other circumstances). Certain sensitive loads might be dropped during the transition.
2. While in backup, switch on at least two different loads to confirm system responds as expected.
3. Close main breaker again to RECONNECT to grid. Transition to grid can take up to 3 min.