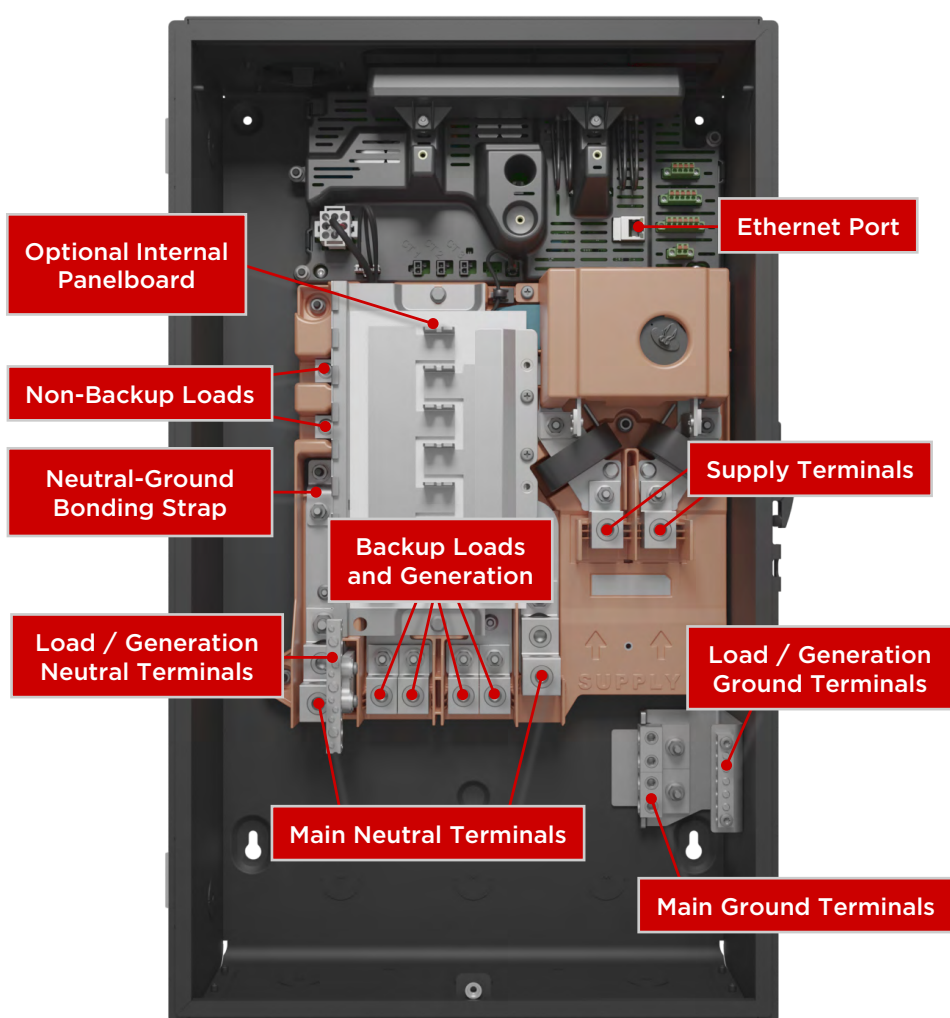## View Partner Portal

The *Powerwall 2 AC (Backup Gateway 2) Installation Manual (North America)* can be found in the *Installation* section in the Powerwall documents

BACKUP GATEWAY 2 OVERVIEW

- Optional Internal Panelboard
- Ethernet Port
- Non-Backup Loads
- Neutral-Ground Bonding Strap
- Supply Terminals
- Backup Loads and Generation
- Load / Generation Neutral Terminals
- Load / Generation Ground Terminals
- Main Neutral Terminals
- Main Ground Terminals

SYSTEM WIRING CONFIGURATIONS

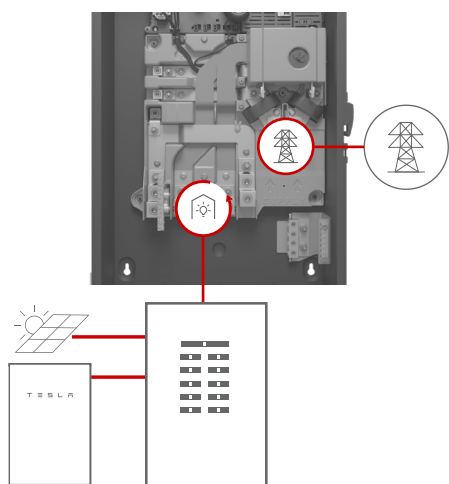Backup Gateway
Without Internal Panelboard
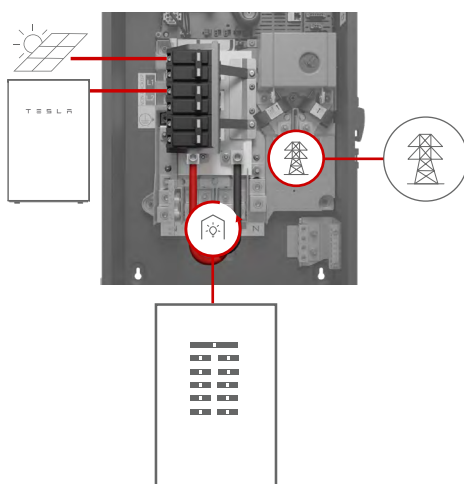
Backup Gateway
With Internal Panelboard

WHOLE HOME BACKUP

Where all loads can be supported by Powerwall
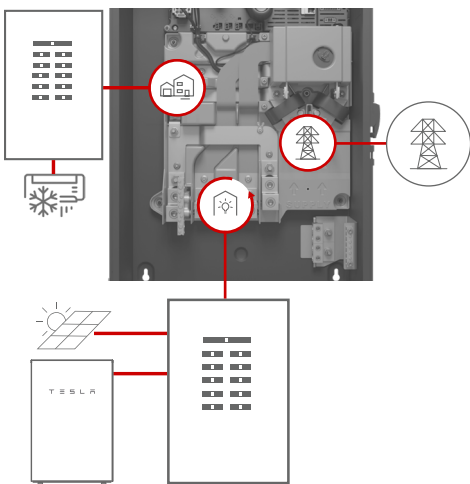
Powerwall and Solar
in existing panel

Powerwall and Solar
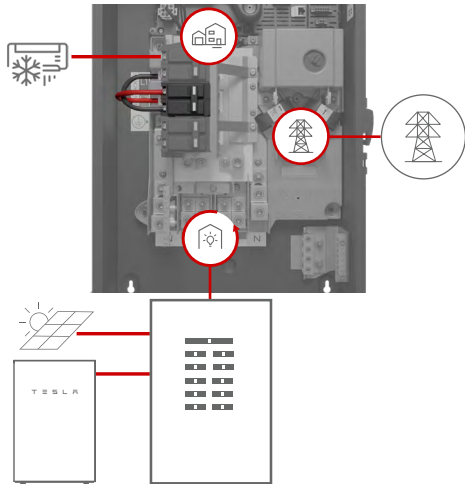on backup internal panelboard

PARTIAL HOME BACKUP

Heavy loads cannot be supported by Powerwall

Heavy loads in existing non-backup subpanel	Heavy loads on non-backup internal panelboard

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

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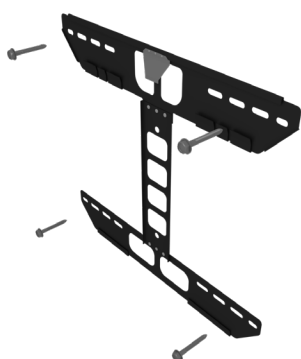
Backup Loads	Non-Backup Loads	High Demand Loads

REQUIRED TOOLS	SUGGESTED TOOLS

| 3/16" | 5/16" |
| 1/4" | 7/16" |

MOUNT POWERWALL

1

Max 9 mm
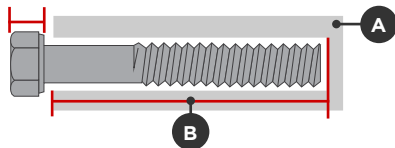
Ⓐ Material	Ⓑ Minimum Embedment
Wood Studs	2 1/2"
Plywood	1/4" beyond back of plywood (min 1/2" plywood)
Metal Studs	3 threads beyond stud / backing
Concrete / Masonry	1 1/2"
Channel Strut	2 1/2" into wood studs 3 threads beyond metal studs

See **Powerwall Mounting Details** in the *Installation Manual* for additional details
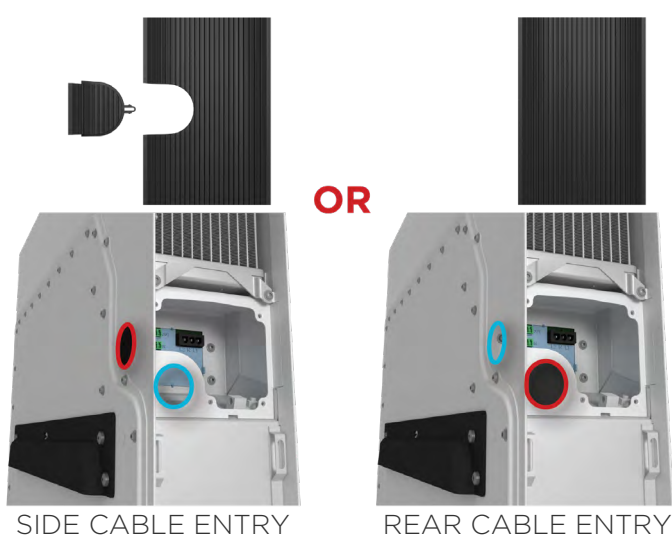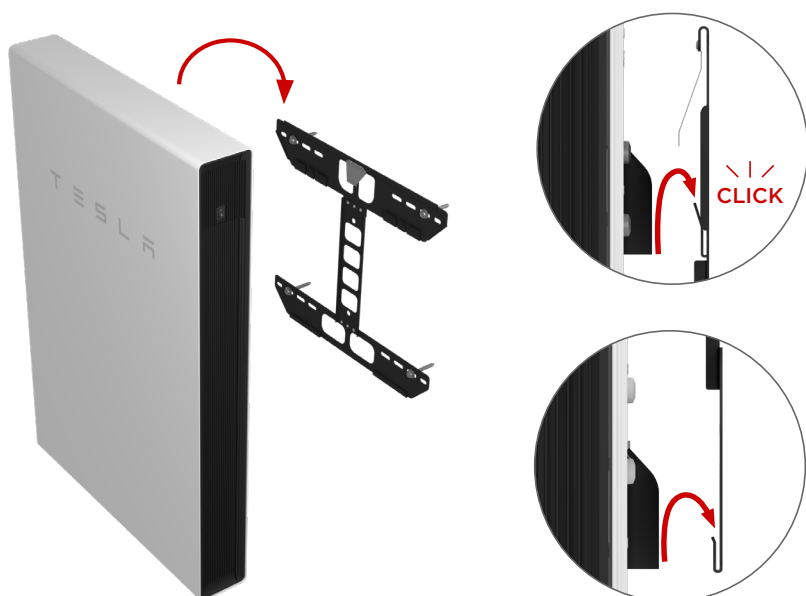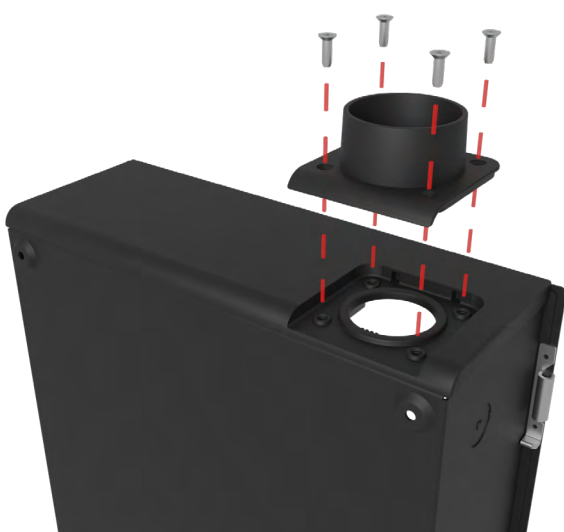
2

3

4

OR

SIDE CABLE ENTRY   REAR CABLE ENTRY

5

TESLA

CLICK
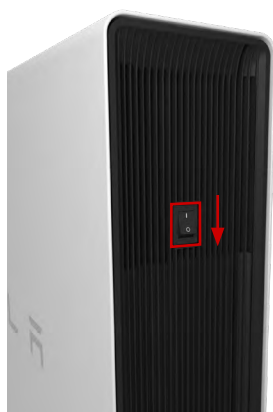
6

BOTTOM, REAR, OR SIDE CABLE ENTRY

OPTIONAL: TOP CABLE ENTRY VIA CONDUIT HUB KIT

7
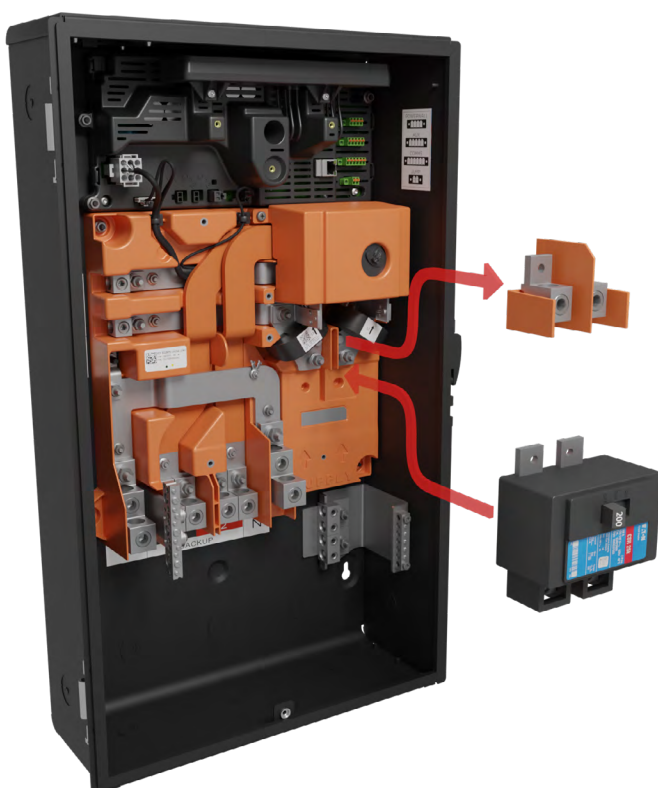
x4 included
Sealing washers
must be installed

NO GATEWAY **IS NOT** INSTALLED AS SERVICE EQUIPMENT
REMOVE NEUTRAL-GROUND BONDING STRAP
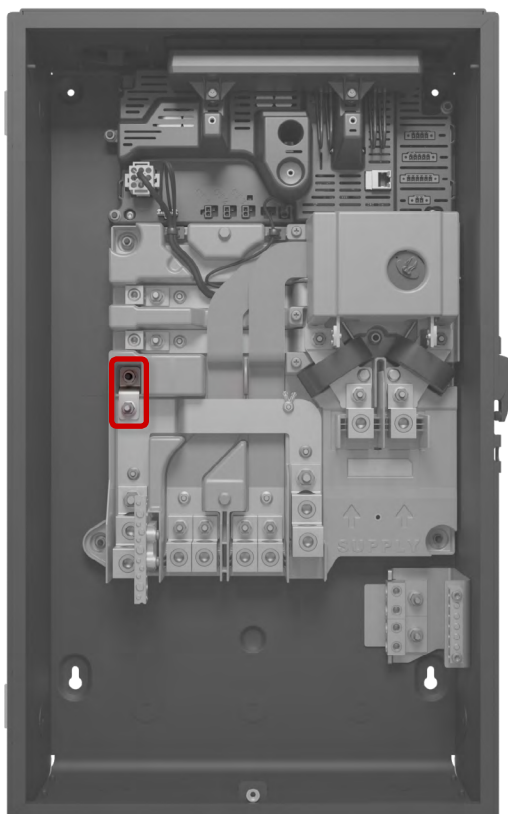
YES GATEWAY **IS** INSTALLED AS SERVICE EQUIPMENT
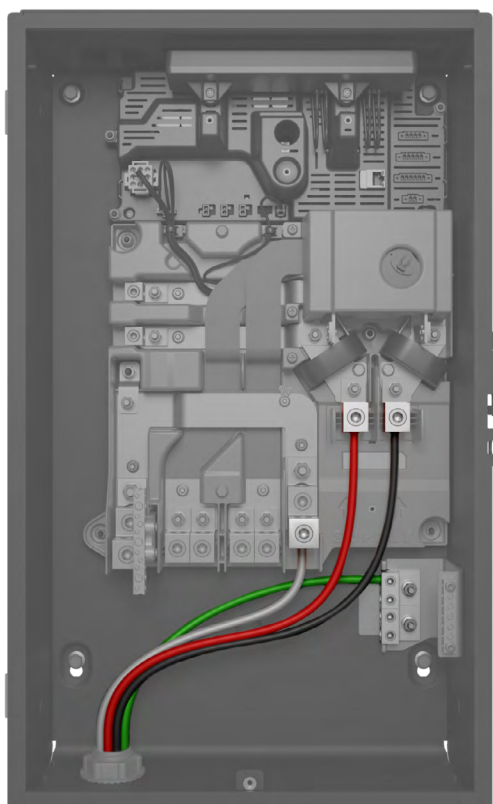INSTALL MAIN BREAKER

See **Wiring Reference** in the *Installation Reference Manual* for breaker types

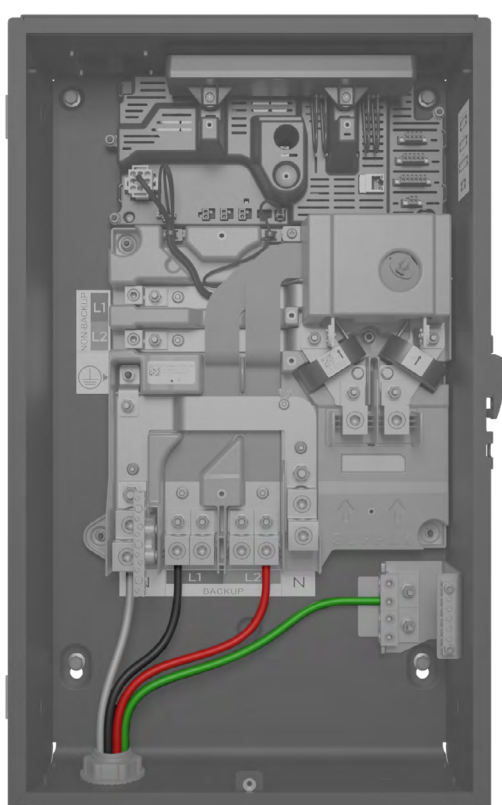## MAKE BACKUP GATEWAY AC POWER CONNECTIONS

9

SUPPLY SIDE CONDUCTORS

	1 ¼"
6 AWG - 250 kcmil	
6 AWG - 250 kcmil	
6 AWG - 250 kcmil	
	275 in-lbs
	5/16"
	¾"
14 AWG - 2/0	
	120 in-lbs
	3/16"

BACKUP LOAD PANEL CONDUCTORS

6 AWG - 250 kcmil

6 AWG - 250 kcmil
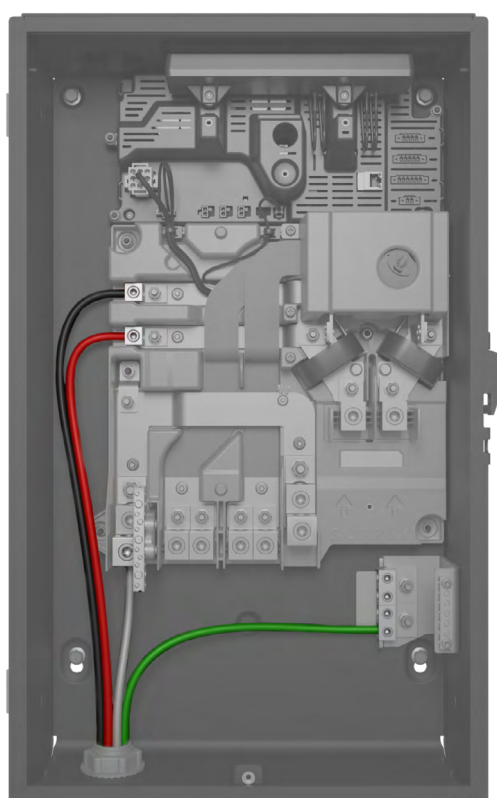
6 AWG - 250 kcmil

1 ¼"

275 in-lbs

5/16"

14 AWG - 2/0

¾"

120 in-lbs

3/16"

NON-BACKUP PANEL CONDUCTORS

6 AWG - 250 kcmil

1 ¼"

275 in-lbs

5/16"

¾"

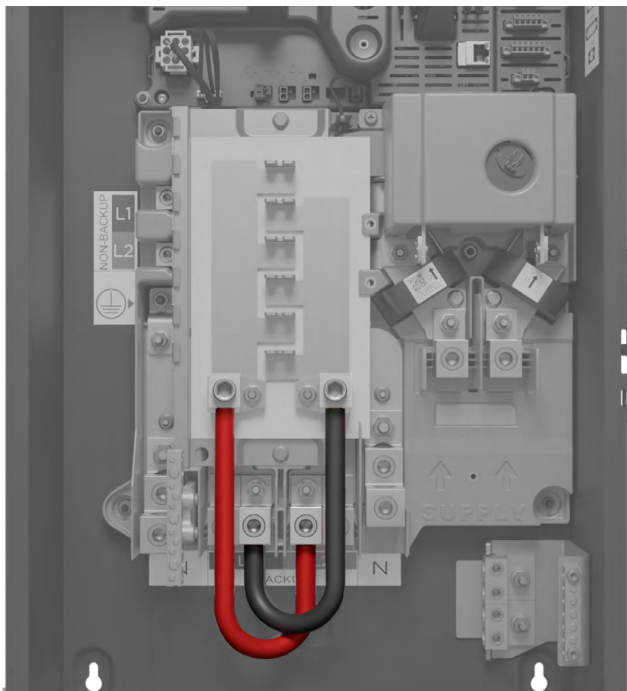14 AWG - 2 AWG

14 AWG - 2 AWG

14 AWG - 2/0

120 in-lbs

3/16"

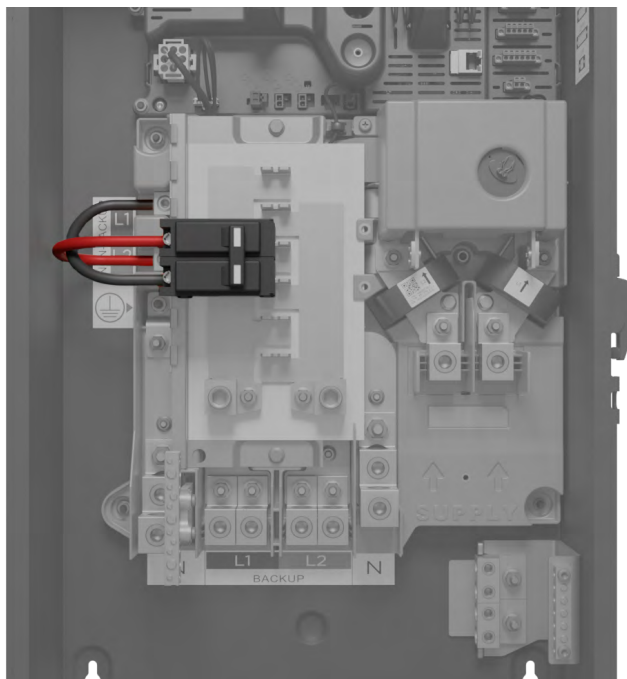## OPTIONAL: INSTALL INTERNAL PANELBOARD

10

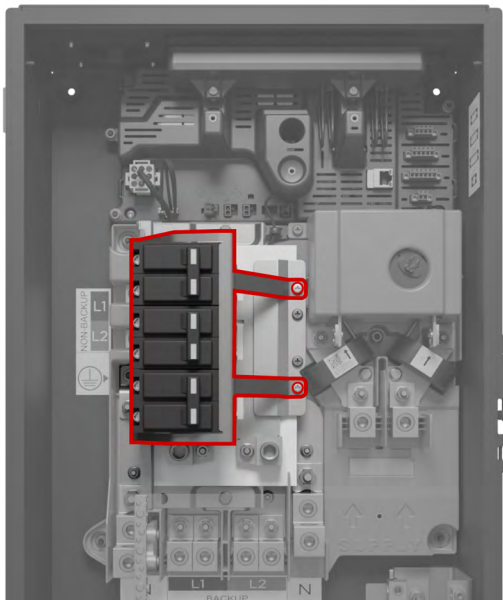**11** BACKUP INTERNAL PANELBOARD

OR

NON-BACKUP INTERNAL PANELBOARD

12 INSTALL BREAKER HOLD-DOWN
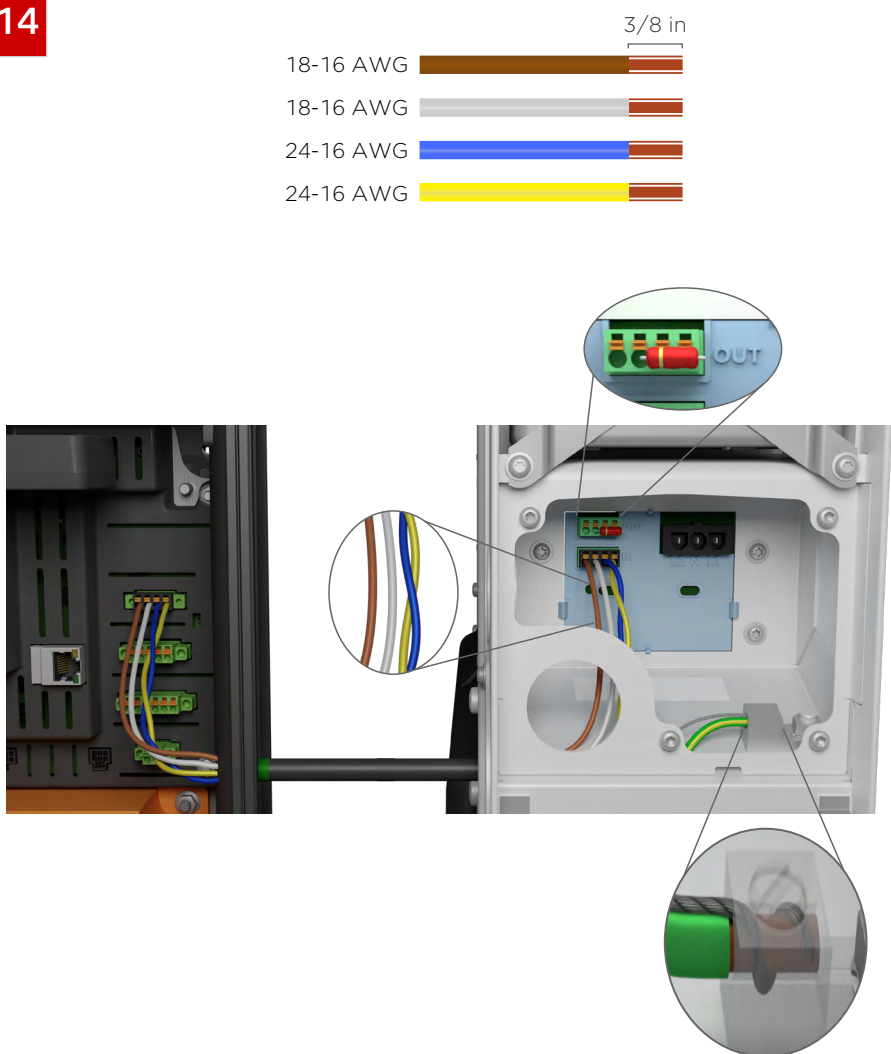

MAKE POWERWALL AC POWER CONNECTIONS

13
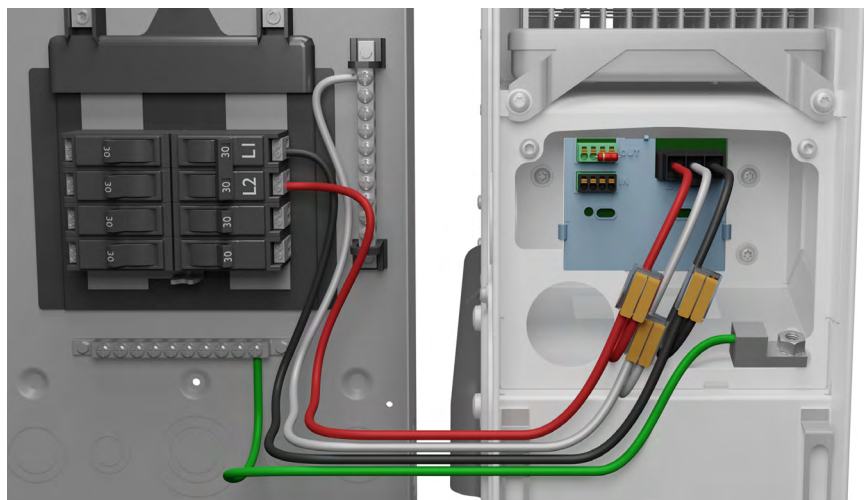
7/16"

10 - 8 AWG

10 - 8 AWG

10 - 8 AWG

3/8 in

18-16 AWG

18-16 AWG

24-16 AWG

24-16 AWG

OUT

MULTI-POWERWALL COMMUNICATION WIRING

GND
12 V +
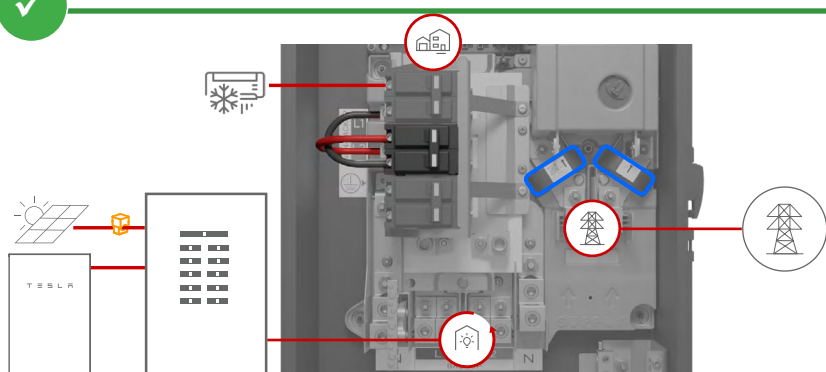CN +
CN –

Drain
Ground

15
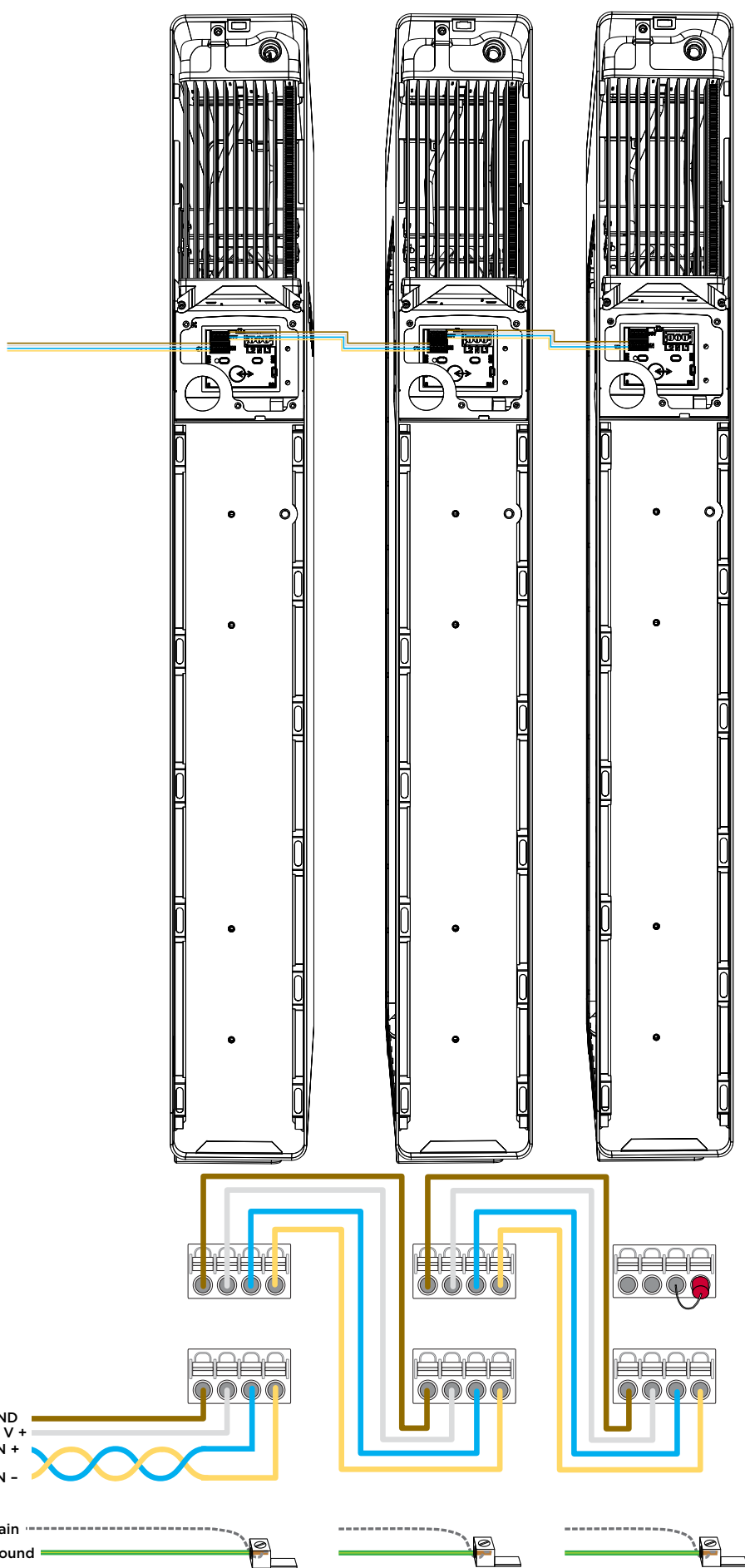
See **Install Optional Remote Disable Switch** in the *Installation Manual* for information on switch operation and design considerations.
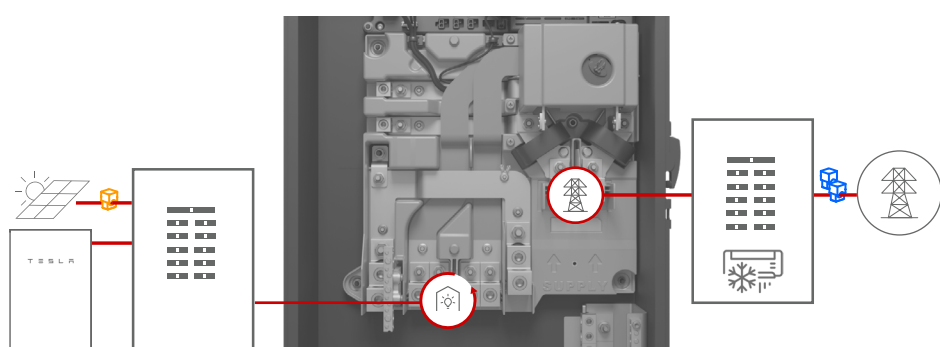
INSTALL METERING

METERING OVERVIEW

Correct Metering Installation

All **Site** loads monitored with two integrated CTs
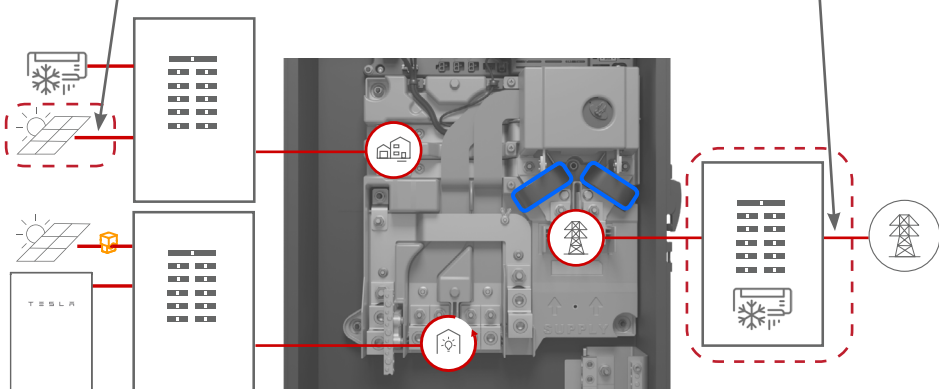All **Solar** monitored with one auxiliary CT

All **Site** loads monitored with two auxiliary CTs
All **Solar** monitored with one auxiliary CT
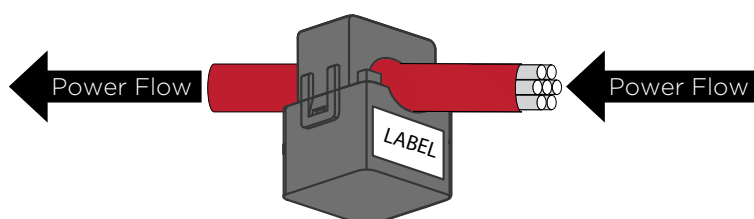
Incorrect Metering Installation

Secondary **Solar** is **not** monitored

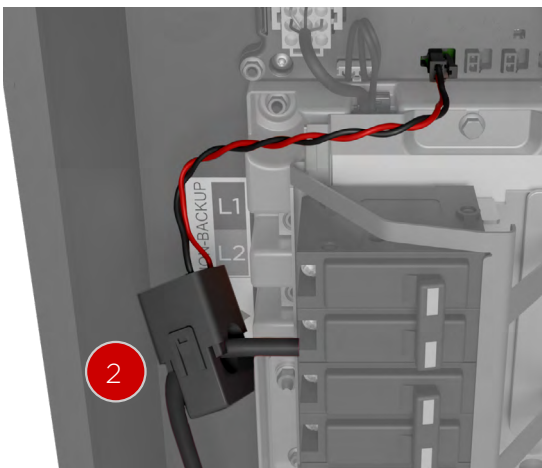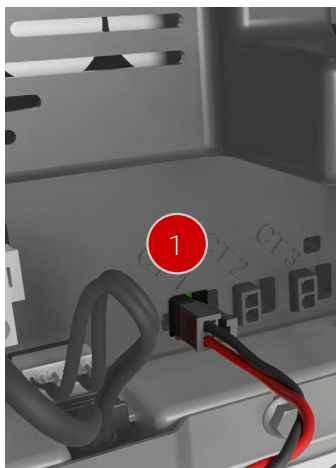Non-Backup **Site** loads are **not** monitored by integrated CTs

CT ORIENTATION

Power Flow ← → Power Flow
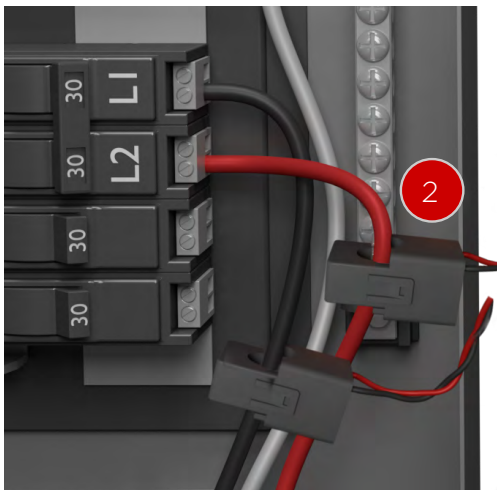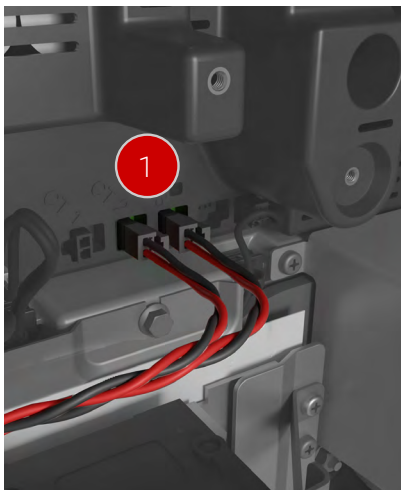
LABEL

CT Label → Source of Power

16 INSTALL SOLAR METERING

INSTALL REMOTE SITE METERING

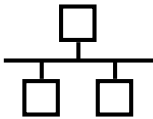(Required for Home Loads upstream of Gateway)

Note: If installing a Neurio meter and additional CTs, connect the Neurio over Wi-Fi to update

See the *Installation Manual* for a detailed overview of metering, system wiring diagrams with meter placement, and instructions for installing a remote Neurio meter.
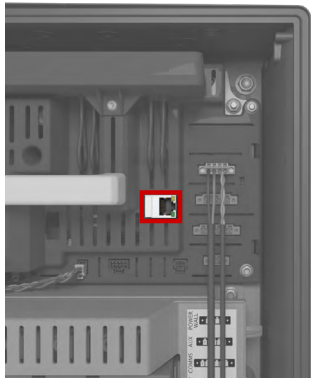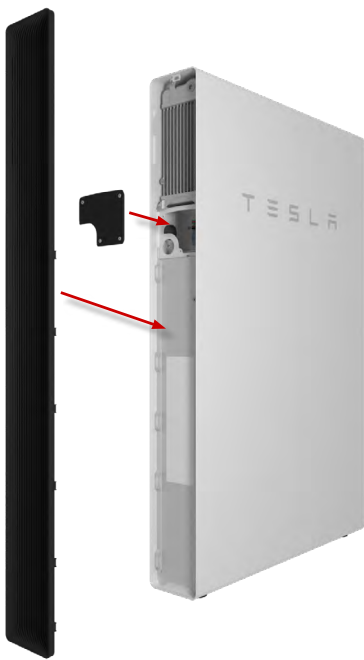
CONNECT BACKUP GATEWAY TO THE INTERNET
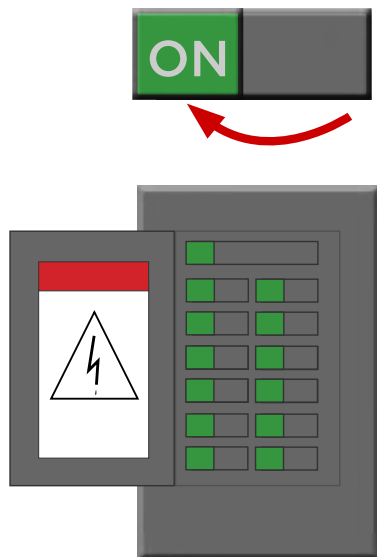
17

Ethernet

AND / OR

2.4 GHz / 5GHz Wi-Fi

HOMEOWNER NETWORK

HOMEOWNER PASSWORD

CLOSE WIRING COMPARTMENTS AND POWER ON

18

19

20

ON

21
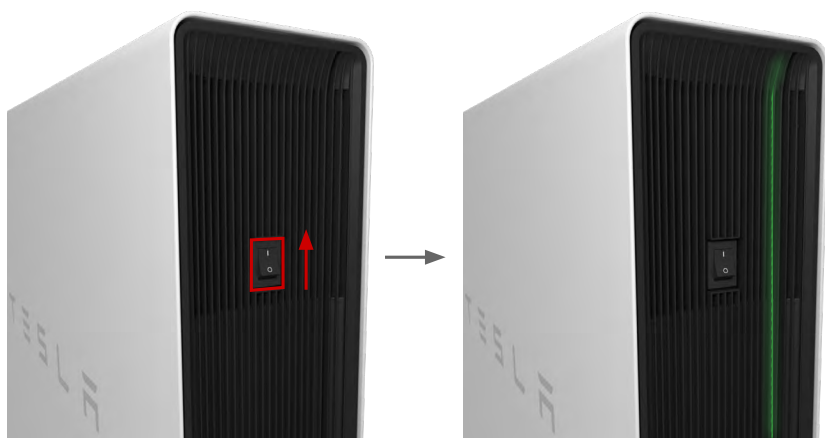
COMMISSION THE SYSTEM

22

TPN: 1232100-XX-X
TSN: TGYYYYYYYYYYYYY
Password: ZZZZZZZZZZ

📶 Join TEG-YYY Wi-Fi

23

http://TEG-YYY

LANGUAGE
English

EMAIL
installer@company.com

PASSWORD
ZZZZZZZZZZ

☐ Show Password

TPN: 1232100-XX-X
TSN: TGYYYYYYYYYYYYY
Password: ZZZZZZZZZZ
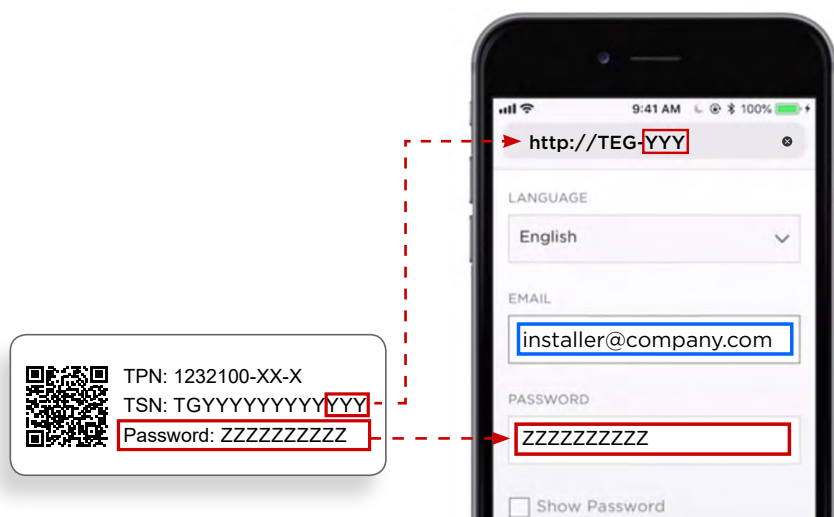
TIPS	
	Use **Chrome: Incognito** mode or **Safari: Private Browsing** mode.
	Work in one browser tab only.
	For security message Your connection is not private, select **Advanced** and **Proceed**.
	For Error: Bad Credentials, select **FORGOT PASSWORD** to reset password.
	For Error: Login Error (Cannot 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.