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# Power Recovery Unit (PRU) **Installation Guide**



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# Getting Started

## Data Sheet

### General Specifications

<b>Cooling</b>	Fan (user replaceable)
<b>Dimensions</b>	17.7 x 27.8 x 7.3 in
<b>Weight</b>	69.4 lb
<b>Operating Temperature</b>	-13°F to +140°F
<b>Noise</b>	<50 dBA
<b>Operation Humidity</b>	5 - 95%
<b>Protection Rating</b>	NEMA 3R
<b>Maximum Elevation</b>	9843 ft
<b>Energy meter</b>	1% Accuracy
<b>Communication</b>	RS485
<b>Communication Ports</b>	2
<b>Manual Control Over Micro-grid Interconnection Device</b>	Yes
<b>LED display</b>	3
<b>Warranty</b>	10 years

<b>Safety Standard Compliance</b>	UL 1741, CSA 22.2 NO.107
<b>Emissions</b>	FCC part 15 Class B

**Electrical specifications**

<b><u>Grid Input / Output to Main Distribution Panel at Grid Tie</u></b>	
<b>AC Output Voltage</b>	120V / 240V ± 10% (Split Phase)
<b>AC Frequency</b>	50 / 60 Hz ± 5%
<b>AC Current Rating</b>	200 A

<b><u>Output to Main Distribution Panel at Backup Operation</u></b>	
<b>AC Output Voltage</b>	120V / 240V ± 10% (Split Phase)
<b>AC Frequency</b>	50 / 60 Hz ± 5%
<b>Split Phase Imbalance</b>	41.7 A
<b>AC Current Output (Max)</b>	160 A

<b><u>Input from Inverter</u></b>	
<b>Number of Inverter Inputs</b>	4
<b>Rated AC Power</b>	3800 W / 5000 W / 6000 W / 7600 W
<b>Maximum Continuous Input Current @240V</b>	15.9 A / 20.9 A / 25 A / 31.7 A
<b>Inverter Input AC Circuit Breaker</b>	20 A / 30 A / 35 A / 40 A
<b><u>Generator</u></b>	
<b>Maximum Rated AC Power</b>	15000 W
<b>Maximum Continuous Input Current</b>	63 A
<b>Auto generator Start</b>	Yes
<b><u>Wire gauge</u></b>	
<b>AC from Grid Conduit Size / AWG Range</b>	2" Conduit / #0-4 / 0 AWG
<b>AC Inverter Conduit Size / AWG Range</b>	1" Conduit / 12-8 AWG
<b>AC Generator Input Conduit Size / AWG Range</b>	1" conduit / 8-4 AWG
<b>Communication Conduit Size / AWG Range</b>	1" conduit / 24-16 AWG

## Safety Icons

**DANGER.** It indicates a hazardous situation which, if not avoided, will result in serious injury or death.



**WARNING.** Indicates a hazardous situation which, if not avoided, could result in serious injury or death.



**CAUTION.** Indicates a hazardous situation which, if not avoided, could result in serious injury or death.



## IMPORTANT SAFETY INSTRUCTIONS

**SAVE THESE INSTRUCTIONS.** This manual contains important instructions for the Power Recovery Unit (PRU) that should be followed during installation and maintenance for the PRU.

The Power Recovery Unit is designed and tested to meet all applicable North American and International safety standards. However, like all electrical and electronic equipment, safety installation and operation of the Power Recovery Unit to reduce the risk of personal injury and to ensure a safe installation.

Installation, commissioning, service, and maintenance of the Power Recovery Unit must only be performed by authorized personnel that are licensed and / or satisfy state and local jurisdiction regulations.

Before starting installation or commissioning, read the entire manual carefully to ensure correct and safe installation or commissioning. And keep the user manual in a safe place.

All US electrical installations must comply and be in accordance with all the state, local, utility regulations, and National Electrical Code ANSI/NFPA 70.



**WARNING.**

This document does not replace and is not intended to replace any local, state, provincial, including without limitation applicable in the jurisdiction of installation. Wallbox assumes no responsibility for the compliance or non-compliance with such laws or codes in connection with the installation of the product.



**DANGER. Danger to life due to high voltages in the product!**

Before installing or using the product, read all the instructions, cautions, and warnings in this manual. Failure to do so or to follow any of the instructions or warnings in this document can result in electrical shock, serious injury or death, or may damage the product.

Before connecting the product to the electrical utility grid, contact the local utility company.

All work must be carried out by a qualified electrician. Children should be supervised to ensure that they do not play with the appliance.



**WARNING:** Do not install the system in a corrosive environment where it may be exposed to ammonia, corrosive gasses, acids, or salts (eg: chemical plant, fertilizer storage areas, tanneries, near volcanic ash eruption).



**WARNING:** Do not disassemble any parts of the

product which are not mentioned in the installation guide. It contains no user-serviceable parts. See warranty for instructions on obtaining service. Attempting to service the device by yourself may result in a risk of electric shock or fire and will void your warranty.



**WARNING:** Before operating the unit, ensure that the PRU is grounded properly. This product must be connected to a grounded, metal, permanent wiring system, or an equipment-grounding conductor must be run with the circuit conductors and connected to the equipment grounding terminal or lead on the product.



**WARNING:** When a ground fault is indicated, normally grounded conductors may be ungrounded and energized or normally ungrounded conductors may be grounded.



**WARNING:** Do not operate the device when the device is running.



**CAUTION:** Only components shipped with the product or recommended by Wallbox shall be used. Using other accessories may result in a fire or injury to the user.



**CAUTION:** Danger of burn injuries due to hot enclosure parts. During operation, the enclosure may become hot.



**CAUTION:** Risk of electric shock. Never operate on the unit couplers, the Mains cables, battery cables, and PV cables when power is applied. After switching off the PV, battery and Mains, always wait for 5 minutes to fully discharge the intermediate circuit capacitors before unplugging DC, battery and Mains couplers.



**WARNING:** Do not expose the system to ambient temperatures above 140°F (60°C) or below -13°F (-25°C).



**WARNING:** Do not attempt to open, disassemble, repair, tamper with or modify the product. The product and its components are not user serviceable.



# Package contents

## Components











**PRU Packaging**

PRU	Brackets

## Accessories Box

Expansion bolt x5	Self-tapping screw x5	Washer x5	55*13*23.7mm Copper bar x4	M4*12 cross screw x1
M5*12 cross screw x8	40*13*7.9mm Copper bar x4	Communication cable x1	Warranty card x1	Bracket Template

## Required tools

					
Electric Drill	Crosshead screwdriver	Cutting pliers	Utility knife	Hammer	Crimping pliers
					
Spirit Level	Multimeter	Allen Key	Crimping tool	Flat-head screwdriver	Measuring Tape & Pencil

# Installation

## Site Requirements

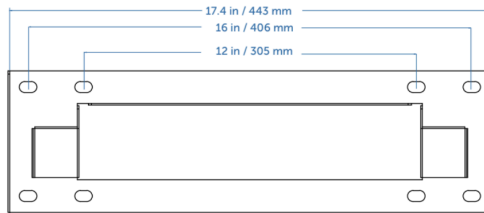
### 1. Site requirements

The Power Recovery Unit must be installed according to local codes and the National Electric Code (NEC) ANSI / NFPA 70.

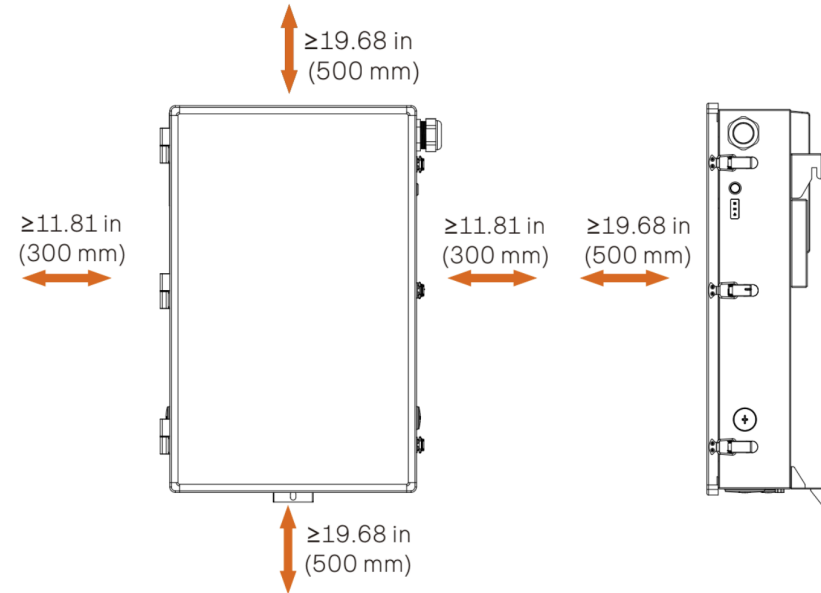
The whole system requires adequate clearance for the installation, cabling or conduit, and airflow. Do not install anything above each unit that limits access to the unit or might fall and damage it. Do not mount each unit upside down.

The Power Recovery Unit must be wall-mounted and configured for cable entry at the bottom and sides of the enclosure.

### 2. Space requirements



To ensure good heat dissipation and convenient disassembly of the Power Recovery Unit, the minimum clearance around it shall be at least the values shown below.

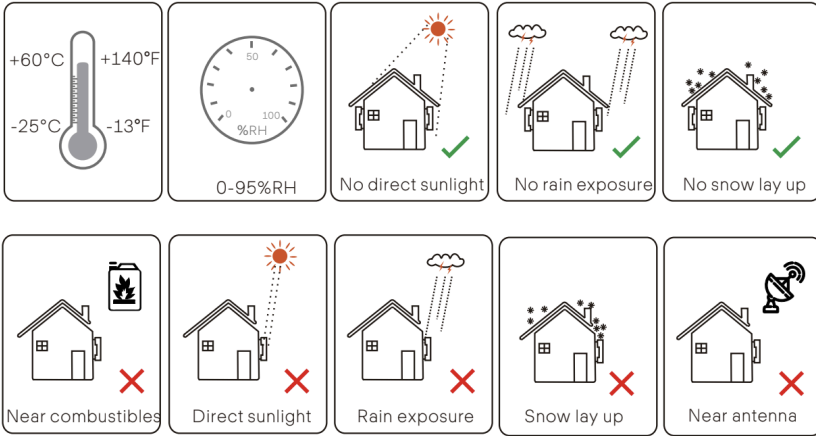


### 3. Environment requirements

The installation position shall be well-ventilated.

Make sure the installation site meets the following conditions:

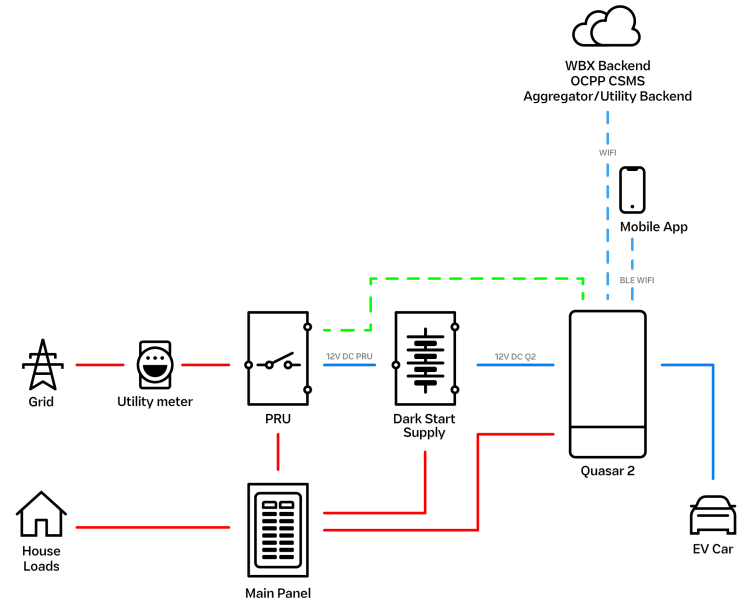
- Not to be exposed to glare.
- Not in areas where highly flammable materials are stored.
- Not in potentially explosive areas.
- Not near the television antenna or antenna cable.
- Not higher than the altitude of 9843 ft (3000 m) above sea level.
- Not in an environment of precipitation.
- Be sure the ventilation is good enough.
- The ambient temperature is in the range of  $-13^{\circ}\text{F}$  ( $-25^{\circ}\text{C}$ ) to  $+140^{\circ}\text{F}$  ( $+60^{\circ}\text{C}$ ).
- The slope of the wall should be within  $\pm 5^{\circ}$ .
- Avoid direct sunlight, rain exposure, snow laying up during installation and operating.



## Plan the Installation

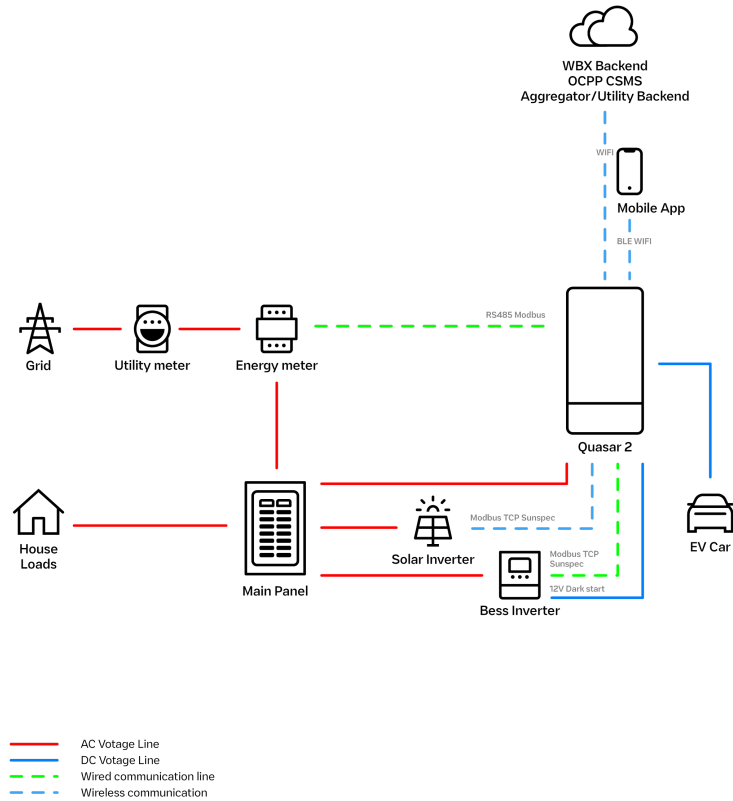
### 4. System Overview

Whole home backup



- AC Voltage Line
- DC Voltage Line
- - - Wired communication line
- - - Wireless communication

## Complete configuration (ESS and Hybrid inverter)



## 5. Location

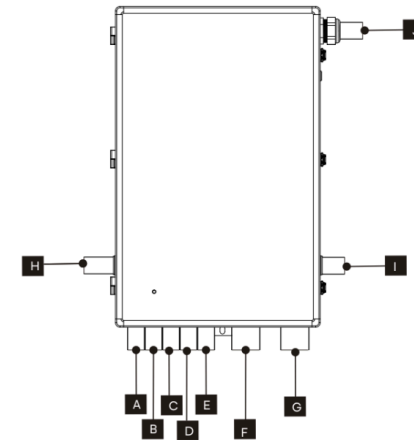
Choose a wall capable of supporting the full weight of the system. If floor-mounting, choose a level surface adjacent to the below wall.

- Wood studs spaced at 12, 16, 20, 24, 28 and 32 inch
- Steel material of sufficient thickness
- Solid concrete or masonry

## 6. Cable Entry

A conduit fitting or cable gland must be used when wiring connections.

The cable is routed from the bottom and sides of the device to the wiring connection of the Power Recovery Unit. Two 2 inch (F and G), one 3/4 inch (J), and seven 1 inch openings are available for connecting.

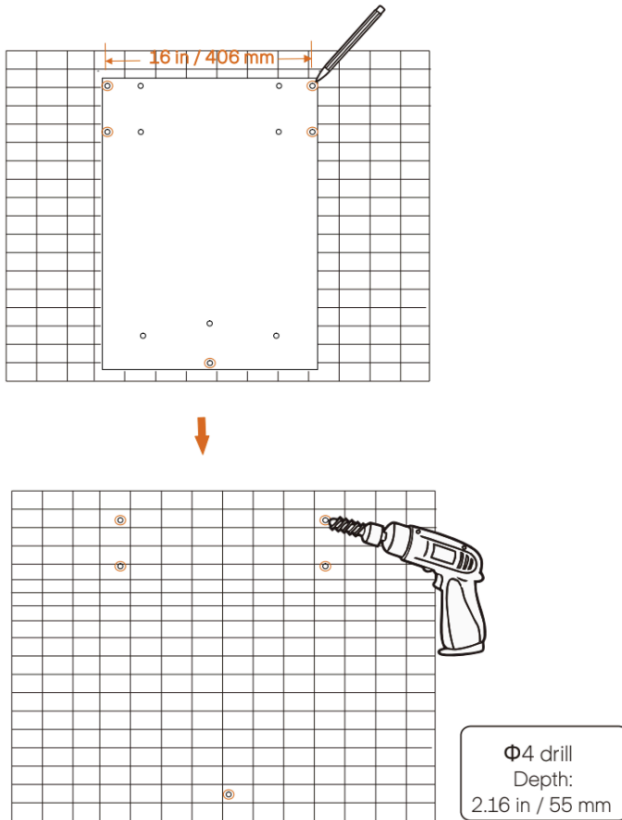


Item	Description
A	AC conduit plug for inverter
B	AC conduit plug for inverter
C	AC conduit plug for inverter
D	AC conduit plug for generator
E	AC conduit plug for inverter
F	Conduit plug for load connection
G	Conduit plug for grid connection
H	Reserved
I	Reserved
J	Communication conduit plug

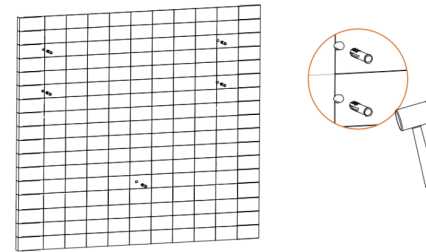
# Installation

## 1. Mounting the Power Recovery Unit

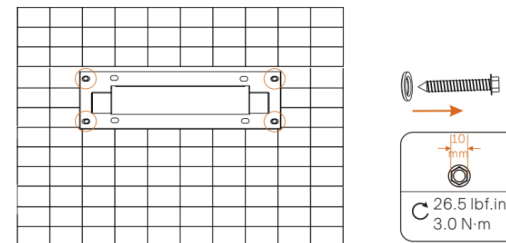
- 1.1** Use the mounting reference paper as a template to mark the screw hole location on the wall; drill five holes on the wall.



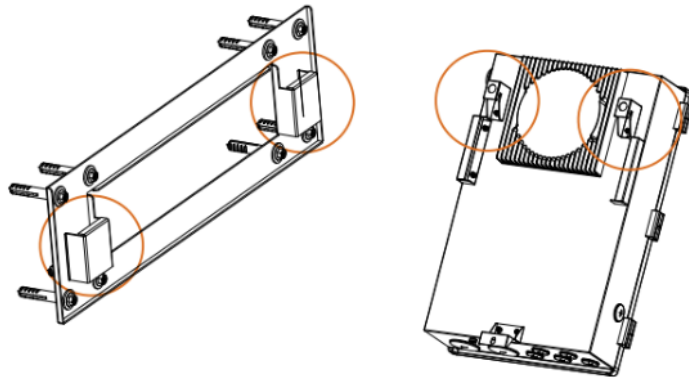
- 1.2** Insert the wall anchors into the holes. (This step can be ignored if the wall is wooden.)



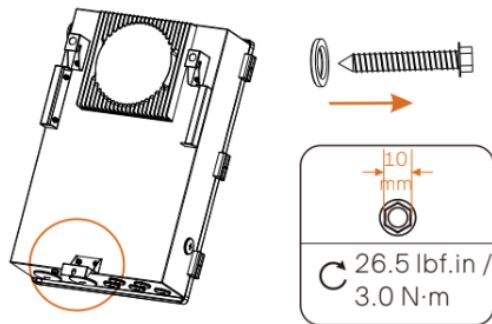
- 1.3** Secure the bracket on the wall with a tapping screw and washer using a torque wrench. Please hold the bracket firmly to the surface of the wall when fixing the bracket.



1.4 Hang the Power Recovery Unit on the bracket. Please make sure the cleat is well seated on the bracket.



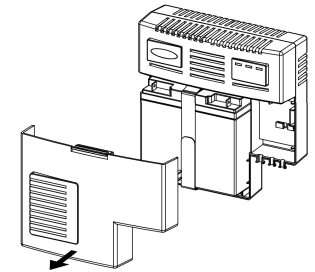
1.5 Secure the Power Recovery Unit by screwing in the tapping screw with the washer on the bottom of the Power Recovery Unit.



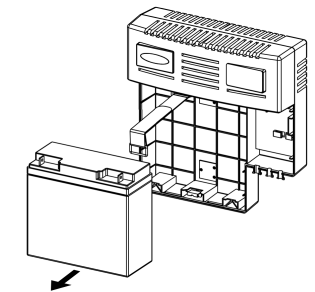
## 2. Mounting the Power Supply *provided by the Installer*

**IMPORTANT: Cyberpower CSN75A12V3 for indoor installation only.**  
Follow the Instructions included in the Power Supply package.

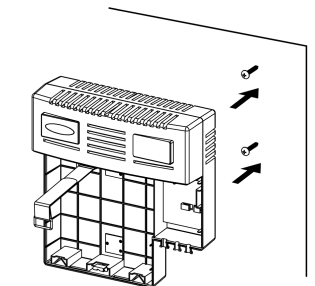
2.1 Remove the battery cover.



2.2 Unstrap the strap from the battery, Slide the battery off of the shelf, and disconnect the battery cable connector at the chassis end.



2.3 Use the enclosed installation template to mark an installation location for the unit. Mount the screws on the wall AND Put the keyhole slots of the unit on the two screws.

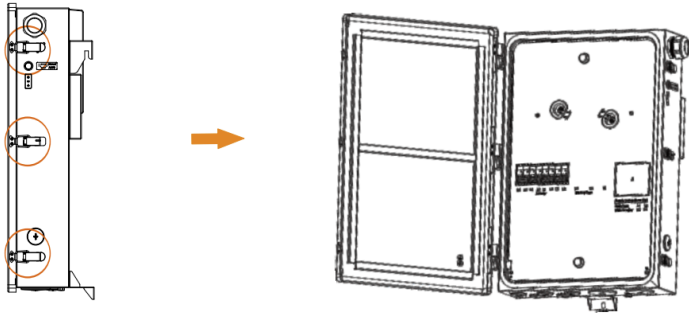


Connect the battery connector and replace the battery back.

### 3. Opening the Power Recovery Unit

3.1

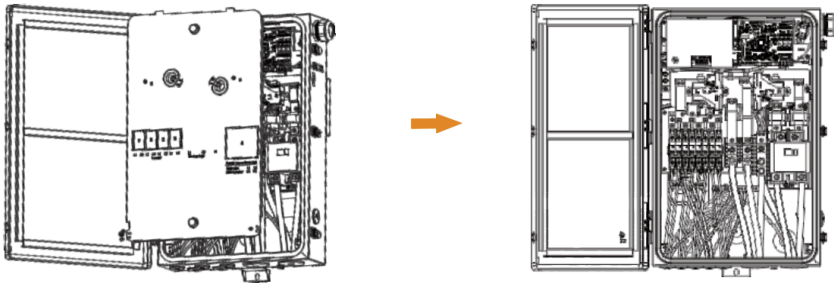
Remove the **4 screws** from the metallic cover



3.2

Unscrew the two M4 screws below with a crosshead screwdriver to disassemble the internal cover of BI.

Hold the metalling door by the two hangers and remove it completely.



### 4. Wiring Connections



**WARNING.** To avoid shock hazards, never power on the system without a connection to Earth at the Power Recovery Unit.



**WARNING.** Before the Power Recovery Unit wiring connection, please make sure it is correctly wall-mounted and can be configured for cable entry at the bottom and sides of the enclosure.



**WARNING.** Incorrect wiring of AC conductors presents a risk of electrical shock or damage to the equipment. Before powering on the system, ensure all the connections are correctly made according to the instructions in this document and following local wiring codes and regulations.

**Install the main breaker (not included in the PRU unit). For breaker requirements, see the Final Notes chapter.**

**IMPORTANT:** When installed as service equipment, a main breaker must be installed.

4.1

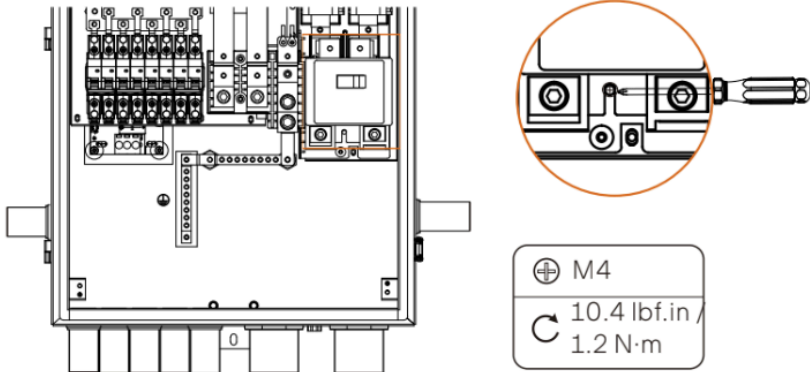
Remove the two supply lugs which were initially installed before leave-factory using a hex socket.

4.2

Install the main breaker using a hex socket. Please note that main breaker wire lug cover caps are recommended whenever a main breaker is installed in the Power Recovery Unit.

4.3

Fix the main breaker with M4\*12 crosshead screws by using a cross screwdriver.



**Note:** After installing the main breaker, lugs feed the opposite bus.

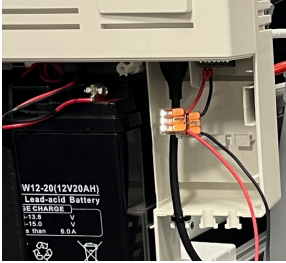

**IMPORTANT:** When not installed as service equipment, ensure wires are properly protected and **remove the GROUND bonding jumper.**

**Note:** Before any wiring connection, the conduit must be installed according to the national and local requirements.

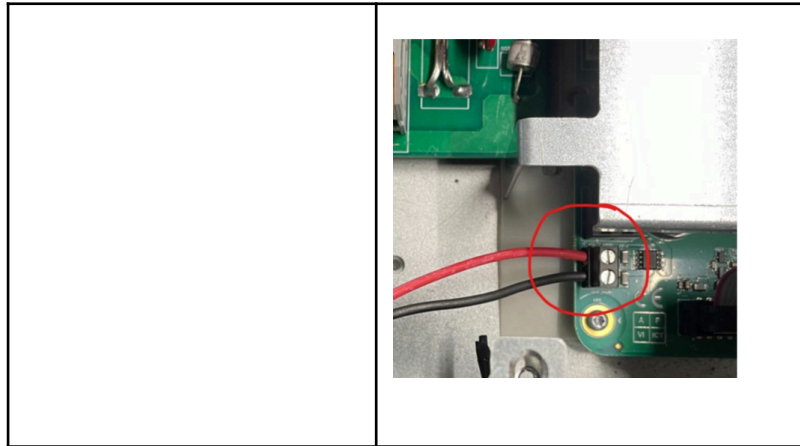
### Connect the Power Supply to the Quasar 2 and PRU

**IMPORTANT:** Use an AWG 16 copper wire for the Power supply connection rated for outdoor use.

**IMPORTANT:** The distance between the Power Supply, the PRU, and Quasar 2 shall not exceed 100 ft.

Power Supply output	PRU & Quasar 2 input
 <p><b>IMPORTANT:</b> The connector between Quasar 2 and Power Supply shall have an interrupter. See image below.</p>	<p><b>PRU input</b></p>  <p>Pins connection:</p> <ul style="list-style-type: none"><li>• Pin 7 -&gt; +12V de la font</li><li>• Pin 8 -&gt; GND de la font</li></ul> <p><b>Quasar 2 Input</b></p> <p>Insert the cable through the comms grommet and connect it to the corresponding ports.</p>





#### Connect the Quasar 2 to the PRU

**Note:** The distance between the PRU and the Quasar 2 shall not exceed 300 ft.

- 4.4 Use a communication cable rated for outdoor use. Insert the black and red wires into the corresponding pins for Quasar 2 wiring.

Pin 3 -> black wire

Pin 4 -> red wire



**IMPORTANT:** Ensure the jumper on the B connector, Port Pins 7 & 8 is maintained, otherwise the PRU will not work

- 4.5 Connect the other end of the communication cable to the corresponding pins of the CAT 3RJ11 6P4C female adapter

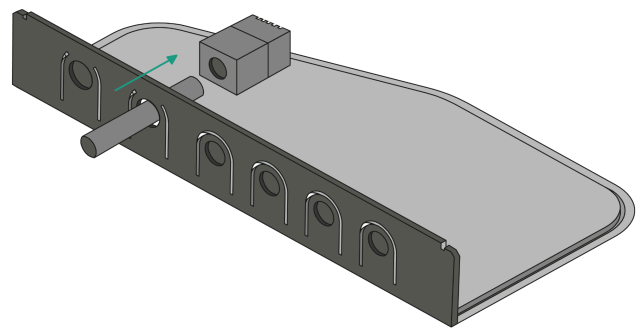
pin B -> black wire

pin C -> red wire



**4.6** Crimp one end of the communication cable and insert the RJ11 connector. Then, insert it to the female adapter on the PRU side.

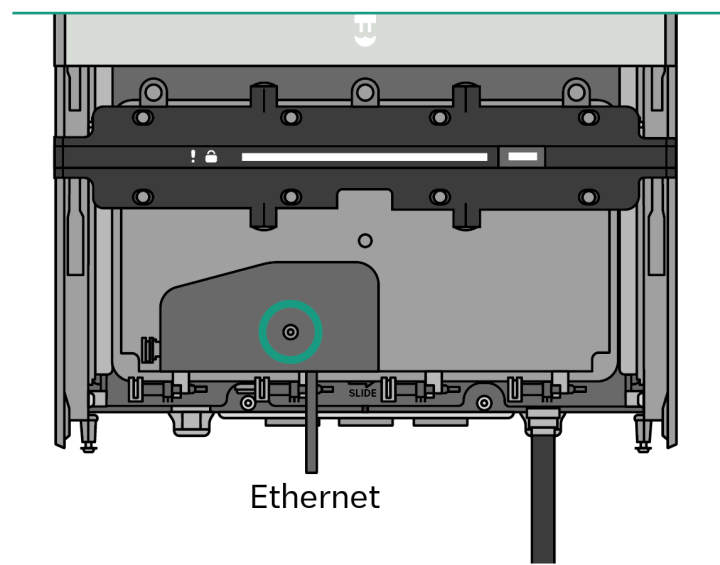
**4.7** On the Quasar 2, remove the Torx screw Ø3.5 x 12 mm from the communications lid and remove it from the HMI module.  
Make a hole in the Power Boost entrance and insert the cable. Then, Crimp the RJ11 connector to the cable end.



**WARNING:** Inserting the cable with the RJ45 CAT6 connector already crimped through the lid will void the warranty.

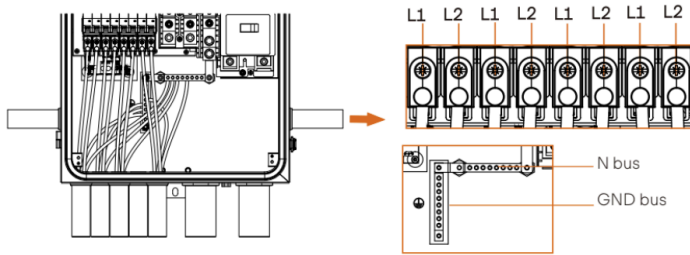
**4.8** Connect the communications cable to the port indicated for Power Boost. Place the lid back on the HMI module and slide it upwards and insert the Ø3.5 x 12 mm screw to secure the lid.

**Note:** tighten to approx. 11.5 lb-in / 1.3 N·m.



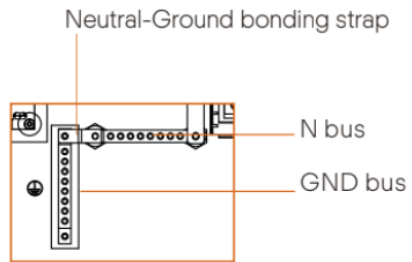
**Connect the Inverter(s) wires to the Power Recovery Unit**

Refer to this section only if an inverter is connected.

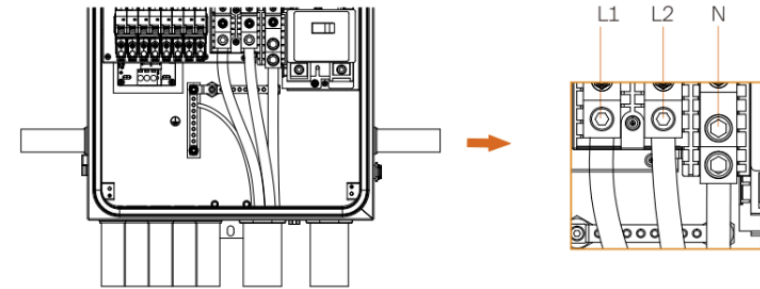


**IMPORTANT:** Remove *the* Neutral-Ground bonding strap from BI if not installed as service equipment.

Proper earth connection and Neutral-Ground bonding strap are required for the system's safe operation and compliance with local code requirements.

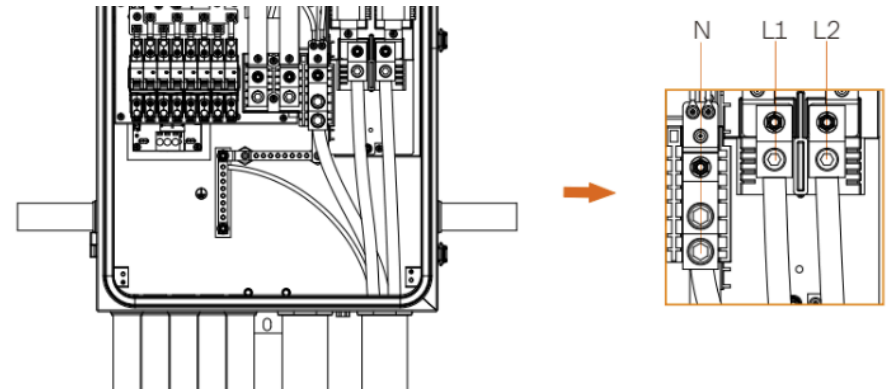


### Connect the loads to the Power Recovery Unit

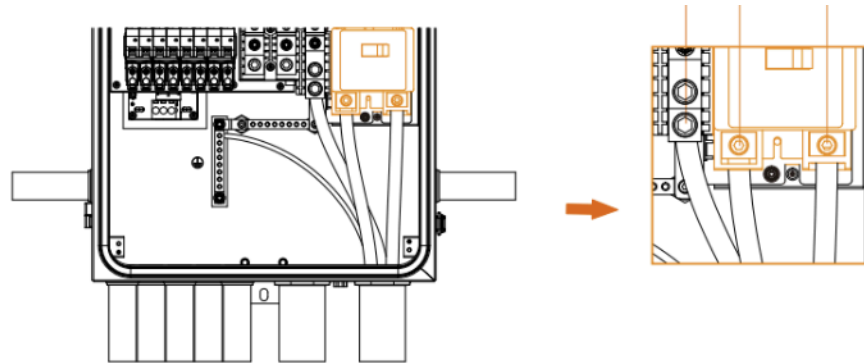


### Connect the AC grid wires to the Power Recovery Unit

*No main breaker installed*



Main breaker installed



## 5. Communications

All communication cables will be connected on the Power Recovery Unit's communication board. This section introduces the steps and requirements for this connection.

Item	Terminals	Port Pin
A	INV communication terminal (for communication between inverter and BI)	<b>Pin 7: +12V</b>
		<b>Pin 8: GND</b>
B	AUX1 terminal (for communication between generator and PRU, EPO and PRU)	<b>Pin 3: RS485_RESERVE_A</b>
		<b>Pin 4: RS485_RESERVE_B</b>
		<b>Pin 7: STOP_NO+</b> (default jumper)
		<b>Pin 8: STOP_NO-</b> (default jumper)

## 7. Closing the Power Recovery Unit & Operation

Check the following indications before turning on the system:

1. Ensure the system is properly mounted.
2. Ensure all grounding wires to the grounding bus-bar are connected properly.
3. Ensure all the communication wirings are connected properly.
4. Ensure all the DC wirings and AC wirings are completed.
5. Ensure the CT is connected properly.
6. Ensure the battery is connected properly.
7. Ensure the loads and critical loads are connected properties, and the critical loads rating is within the nominal rating range.

Turn on the system following the steps:

1. Before closing any wiring cover, please take pictures of the completed wiring.
2. Install the internal cover of the Power Recovery Unit
3. Switch on the Power Recovery Unit power button ("AUTO" position).
4. Switch on the AC circuit breakers for the Power Recovery Unit and Quasar 2 and the rest of the loads.
5. Install the outer cover of the Power Recovery Unit.
6. The system will start up. Check the status of indicator lights on the Power Recovery Unit. For more information on the codes displayed for error and warning messages, refer to the indicator Lights and Button section.

## Status Lights & Buttons





The Power recovery Unit and the Power Supply include an LED that provides information on the unit's status.

Once the installation has been completed, the charger is ready to be powered up and configured. Switch on the power to the circuit from the circuit breaker, and the charger LEDs should light up.

### Power Recovery Unit Lights & Button






#### Operation LED

-  Green when the BI is in on-grid status.
-  Flashing green (2s on, 2s off) when the BI is in backup status.
-  Flashing green (0.5s on, 0.5s off) when the BI is in generator status.
-  Off when the load port of the BI has no power.



#### Communication LED

-  Green when the BI communication is normal.
-  Flashing green (2s on, 2s off) when the BI RS485 fault occurs.
-  Off when the BI communication fault occurs.



### Fault LED

- Red when relay fault or over-temperature fault occurs.
- Flashing red (2s on, 2s off) when another fault occurs.
- Flashing red (0.5s on, 0.5s off) when BI power button is off or EPO fault occurs.
- Off if no Fault occurs.

Color and Status			Message Explanation
Operation LED	Communication	Fault LED	
0.5s on, 0.5s off	0.5s on, 0.5s off	0.5s on, 0.5s off	Firmware upgrading
OFF	OFF	OFF	Upgrade 0%-29%
OFF	OFF	ON	Upgrade 30%-69%
OFF	ON	ON	Upgrade 70%-99%
ON	ON	ON	Upgrade 100%



### Power Button

When ON, the backup mode is enabled.

When OFF, the PRU is not operable.

## Power Supply Lights & Button

Indicator	Color	Port Pin
 AC	Green	Power Supply is connected to the grid.
	Yellow	Power Supply is on battery power.
 OUTPUT	Green	DC output power is provided.
 BATTERY	Red	The battery is not connected, or it needs to be replaced.

For additional information, please check the Cyberpower User's Manual.

# Service

Need more assistance?  
Contact Wallbox Customer Support

Service (888) 787-5780

Email: [service.na@wallbox.com](mailto:service.na@wallbox.com)  
www: <https://support.wallbox.com/na/contact-us/>

# Final Notes

## Maintenance Instructions



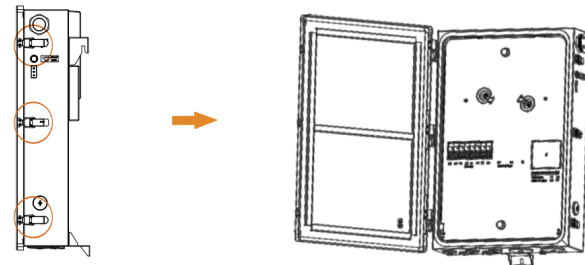
Do not use this product if the enclosure or the connector is broken, cracked, open, or shows any other indication of damage. Please contact Wallbox.

The installation and servicing of the Wallbox device must be performed only by qualified personnel in accordance with applicable local regulations. Unauthorised installation and modifications make the manufacturer warranty void.

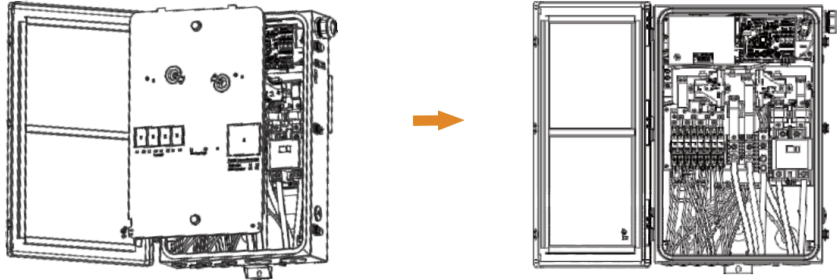
Qualified personnel are defined as individuals possessing expertise and training about the construction and operation of electrical equipment and installations, coupled with formal safety training enabling them to identify and mitigate potential hazards.

**Maintenance instructions:** The internal fan of the Power recovery Unit may be required to be replaced when a fan error occurs. The replacement of the fan shall only be performed by qualified electricians. Before replacement, make sure all the power of BI is switched off:

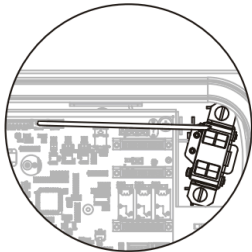
- First open the outer cover of the Power Recovery Unit



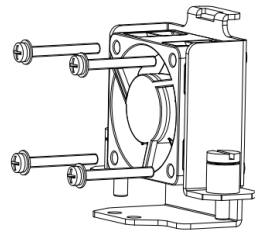
- Unscrew the two M4 screws below with a crosshead screwdriver to disassemble the internal cover.



- Disconnect the fan cable, and unscrew the two M4 screws to disassemble the fan (pull out the fan). Please note that the fan cable is locked on the Power Recovery Unit. Pinch and hold the buckle on the cable terminal to disconnect it.



Before



After

**Note:** For spare parts, contact Wallbox Customer Service at the telephone number or email address indicated in the Service section.

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Protect your device from any external impact.

Do not use the device under adverse climatic conditions.

Do not open the device in the rain.

Do not touch the device if it emits smoke or begins to melt. If possible, turn off the power.

Do not open the device while it is connected to the power supply.

Take appropriate precautions with electronic medical implants.

Disconnect the device's main service power before cleaning it. Do not use cleaning solvents to clean any part of the charger. Clean it with a clean, dry cloth to remove dust and dirt.

The devices should be used under the specified operating parameters and within normal ambient conditions, as specified in the General and Electrical Specifications section.

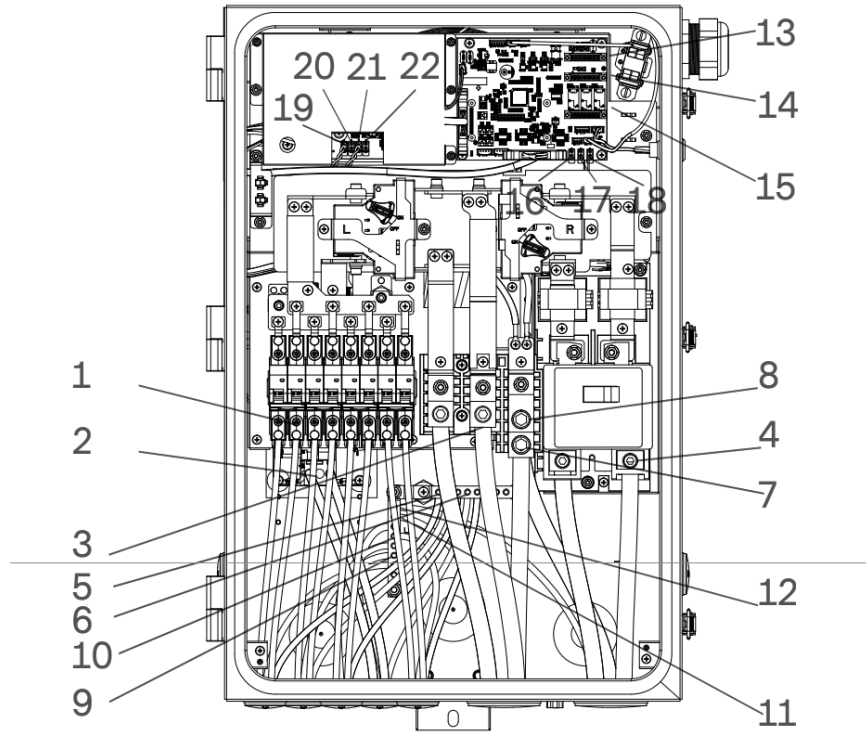
The device is not intended to be installed in a commercial space (repair facility) or closer than 6.1 m (20 ft) of an outdoor motor fuel dispensing device.

Not intended for commercial garage (repair facility) outdoor installation.

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## Wiring and Breaker Requirements



## Power Terminals

No.	Terminals	Cross-sectional Area Range	Strip Length	Torque (in-lbs)
1	INV Terminals	12-8 AWG (3.8 kW), 10-8 AWG (5/6/7.6 kW)	0.67 in / 17 mm	30
2	GEN Terminals	8-4 AWG	0.67 in / 17 mm	/
3	Load Terminals	3 AWG-4/0 AWG	1.25 in / 32 mm	275
4	Grid Terminals	3 AWG-4/0 AWG	1.25 in / 32 mm	275
5	INV Neutral Terminals	12-8 AWG (3.8 kW), 10-8 AWG (5/6/7.6 kW)	0.79 in / 20 mm	275
6	GEN Neutral Terminals	8-4 AWG	0.79 in / 20mm	/
7	Load Neutral Terminals	3 AWG-4/0 AWG	1.77 in / 45 mm	275
8	Main Neutral Terminals	3 AWG-4/0 AWG	1.77 in / 45 mm	275
9	INV Ground Terminals	8 AWG	0.79 in / 20mm	30
10	GEN Ground Terminals	8-6 AWG	0.79 in / 20mm	30
11	Load Ground Terminals	6-4 AWG	1.77 in / 45 mm	30
12	Main Ground Terminals	6-4 AWG	1.77 in / 45 mm	30

\*The power cable shall be 90°C(194°F), 600 V, copper.

### Communication Terminals

No.	Terminals	Port Pin	Range	Strip Length	Torque (in-lbs)
13	INV Communication terminal	Pin 7: +12V	18-16 AWG	0.24 in / 6 mm	1.8
		Pin 8: GND	18-16 AWG	0.67 in / 17 mm	1.8
14	AUX1 terminal	Pin 3: RS485_RESERVE_A	24-18 AWG CAT5 or better	1.25 in / 32 mm	1.8
		Pin 4: RS485_RESERVE_B	24-18 AWG CAT5 or better	1.25 in / 32 mm	1.8
		Pin 7: STOP_NO+ (default jumper)	24-18 AWG	0.79 in / 20 mm	1.8
		Pin 8: STOP_NO- (default jumper)	24-18 AWG	0.79 in / 20mm	1.8

### Breakers & Switches

No.	Component	Description		
		Amps	Part Number	Description
1	Grid Breaker	100	CSR2100	Eaton # CSR2100: 100 A / 240 V, 25 kAIC, 2-Pole
		125	CSR2125N	Eaton # CSR2125N: 125 A / 240 V, 25 kAIC, 2-Pole
		150	CSR2150N	Eaton # CSR2150N: 150 A / 240 V, 25 kAIC, 2-Pole
		175	CSR2175N	Eaton # CSR2175N: 175 A / 240 V, 25 kAIC, 2-Pole
		200	CSR2200N	Eaton # CSR2200N: 200 A / 240 V, 25 kAIC, 2-Pole
		100	BW2100	Eaton # BW2100: 100 A / 240 V, 10 kAIC, 2-Pole
		125	BW2125	Eaton # BW2125: 125 A / 240 V, 10 kAIC, 2-Pole
		150	BW2150	Eaton # BW2150: 150 A / 240 V, 10 kAIC, 2-Pole
		175	BW2175	Eaton # BW2175: 175 A / 240 V, 10 kAIC, 2-Pole
		200	BW2200	Eaton # BW2200: 200 A / 240 V, 10 kAIC, 2-Pole
		100	BWH2100	Eaton # BWH2100: 100 A / 240 V, 25 kAIC, 2-Pole
		125	BWH2125	Eaton # BWH2125: 125 A / 240 V, 25 kAIC, 2-Pole
		150	BWH2150	Eaton # BWH2150: 150 A / 240 V, 25 kAIC, 2-Pole
		175	BWH2175	Eaton # BWH2175: 175 A / 240 V, 25 kAIC, 2-Pole
200	BWH2200	Eaton # BWH2200: 200 A / 240 V, 25 kAIC, 2-Pole		
2	Emergency Stop switch	Normally closed (NC) contact. The UL certification is required for the emergency stop switch.		