

# PSI-X-PRL-BMS-2

FR

External BMS for Parallel  
Battery Connection

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User Manual



/// PEIMAR





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# 1. Notes on this Manual

## 1.1. Scope

This manual is part of the PSI-X series. It describes the assembly, installation, commissioning, maintenance and troubleshooting of the product. Please read it carefully before any operation or commissioning.

Model: PSI-X-PRL-BMS-2

## 1.2. Target Audience

This manual is intended for qualified electricians. The tasks described in this manual must be performed only by qualified personnel.

## 1.3. Symbols Used

The following types of safety instructions appear in this document and are described below:



### **DANGER!**

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“DANGER!” indicates a hazardous situation which, if not avoided, will result in serious injury or death.



### **WARNING!**

---

“WARNING!” indicates a hazardous situation which, if not avoided, could result in serious injury or death.



### **CAUTION!**

---

“CAUTION!” indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.



### **NOTE!**

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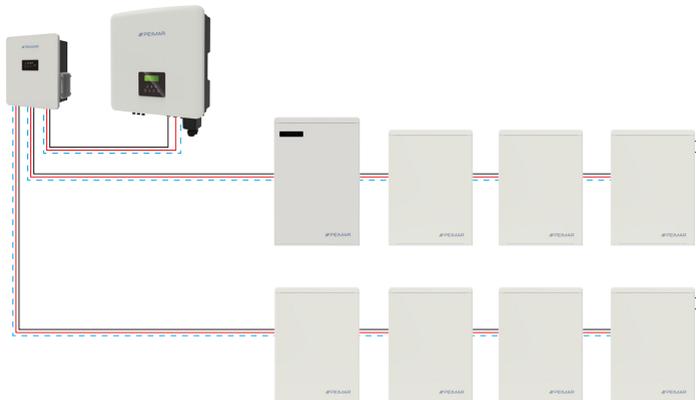
“NOTE!” provides useful tips to ensure optimal operation of your product.

## 2. Safety

### 2.1. Intended Use

For safety reasons, installers are responsible for familiarizing themselves with the contents of this manual and with all warnings before performing the installation.

	BAT -
	BAT +
	COMM



Connection with PSI-X-SYS-H5.8-HV-V2

## 2.2. Important Safety Instructions



### **DANGER!**

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#### **Danger of death due to high voltages inside the parallel unit!**

- All work must be carried out by a qualified electrician.
- The device must not be used by children or by persons with reduced physical, sensory or mental capabilities, or with a lack of experience and knowledge, unless they are supervised or have received appropriate instructions.
- Children must be supervised to ensure that they do not play with the device.



### **CAUTION!**

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#### **Risk of burns due to hot parts of the enclosure!**

- During operation, the upper cover of the enclosure and the enclosure itself may become hot.
- Only touch the lower cover of the enclosure during operation.



### **CAUTION!**

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#### **Possible health risk due to radiation effects!**

- Do not remain within 0.66 ft / 20 cm of the parallel unit for extended periods.



### **WARNING!**

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**Do not use the parallel unit while the device is operating.**



### **WARNING!**

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**Risk of electric shock!**

**WARNING!**

Authorized maintenance personnel must disconnect the cables before performing any maintenance, cleaning, or work on circuits connected to the unit.

- Before use, please read this section carefully to ensure correct and safe application.
- Keep the user manual in a safe place.
- Use only accessories recommended or sold by our company. Otherwise, there may be a risk of fire, electric shock, or injury.
- Ensure that the existing wiring is in good condition and that the conductors are not undersized.
- Do not disassemble parts of the enclosure that are not mentioned in the user manual. The parallel unit contains no user-serviceable parts.
- Refer to the warranty for information about service. Attempting to repair the unit yourself may result in electric shock or fire and will void your warranty.
- Keep the parallel unit away from flammable or explosive materials to avoid any risk of fire.
- The installation location must be away from humid or corrosive substances.
- Authorized service personnel must use insulated tools when installing or working with this equipment.

## 2.3. Qualified Installer



### **WARNING!**

---

All operations related to the electrical connection and installation of the unit must be carried out by qualified personnel.

A qualified worker is defined as a trained and certified electrician or installer who possesses all of the following skills and experience:

- Knowledge of the operating principles and functioning of grid-connected systems.
- Knowledge of the hazards and risks associated with the installation and use of electrical devices, as well as appropriate mitigation methods.
- Knowledge of the installation of electrical devices.
- Knowledge of and compliance with this manual, as well as all safety measures and best practices.

## 2.4. Explanation of Symbols

This section provides an explanation of all the symbols displayed on the warning label.

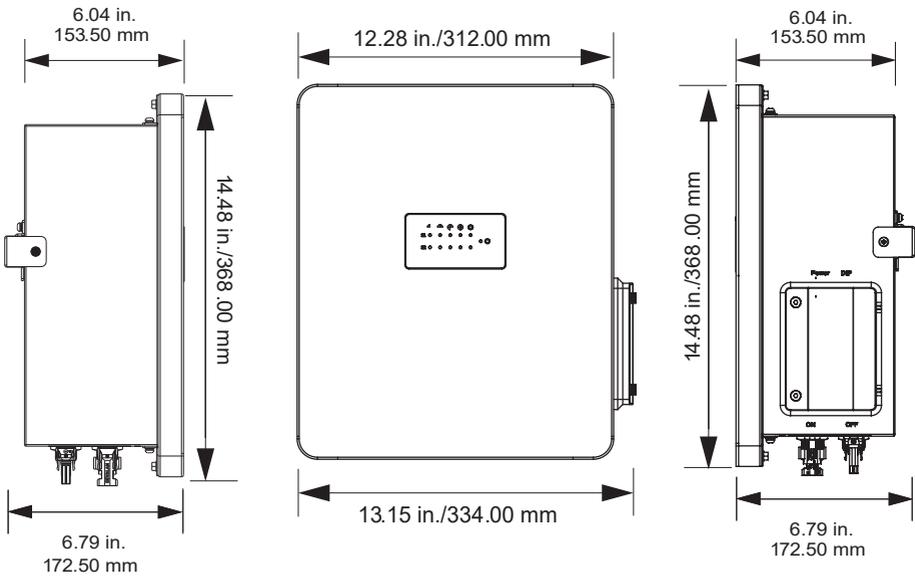
Symbol	Explanation
	The system must be disposed of at an appropriate facility for environmentally friendly recycling.
	Wear protective goggles.
	Read the enclosed documentation carefully.
	Keep the battery system away from open flames or ignition sources.
	Keep the battery system out of the reach of children.
	Danger. Risk of electric shock.
	Caution, risk of hazard.

### 3. Product Overview

#### 3.1. Product Overview

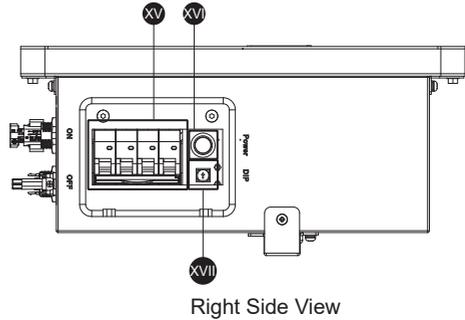
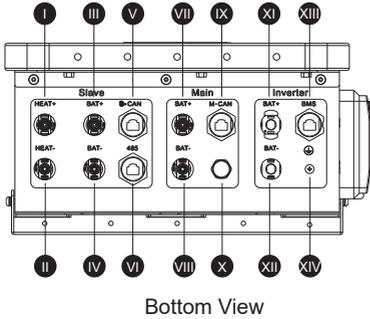
For safety reasons, installers are responsible for familiarizing themselves with the contents of this manual as well as all warnings before performing the installation.

##### 3.1.1. Dimensions



### 3.1.2. Appearance

#### PSI-X-PRL-BMS-2 Terminals



Item	Mark	Description	
I	Slave	HEAT+	“HEAT+” connector of the parallel unit to the slave “HEAT+”
II		HEAT-	“HEAT-” connector of the parallel unit to the slave “HEAT-”
III		BAT+	“BAT+” connector of the parallel unit to the slave “B+/+”
IV		BAT-	“BAT-” connector of the parallel unit to the slave “B-/XPLUG”
V		S-CAN	Slave battery module communication
VI		485	Slave battery module RS485 communication
VII	Master	BAT+	“BAT+” connector of the parallel unit to the master “BAT+”
VIII		BAT-	“BAT-” connector of the parallel unit to the master “BAT-”
IX		M-CAN	“M-CAN” connector of the parallel unit to the master
X		/	Ventilation / air vent
XI	Inverter	BAT+	“BAT+” connector of the parallel unit to the inverter “BAT+”
XII		BAT-	“BAT-” connector of the parallel unit to the inverter “BAT-”
XIII		BMS	“BMS” connector of the parallel unit to the inverter “BMS”
XIV		GND	 Ground / grounding
XV	ON/OFF	Circuit breaker	
XVI	POWER	Power button	
XVII	DIP	DIP switch	

## 3.2. Basic Characteristics

### 3.2.1. Features

The unit features advanced technology, high reliability, and practical control functions, as listed below:

- Interaction with the inverter
- Based on interactive information, evaluation and control of the operating status of the battery system
- BMS-related control processing
- Implementation of identification and handling of corresponding faults
- Ensuring the safe operation of the battery system
- Secondary hardware protection
- IP65 protection rating
- Safe and reliable
- Compact design
- Wall-mounted installation

### 3.2.2. Certifications

Safety	IEC 62477-1, IEC 61439-1, IEC 61439-2
EMC	IEC 61000-6-1/2/3/4

### 3.3. Technical Data

<b>Model</b>	<b>PSI-X-PRL-BMS-2</b>
Dimensions (W/H/D) (in/mm)	14.48 x 13.15 x 6.04 in / 368 x 334 x 153.5 mm
Package dimensions (W/H/D) (in/mm)	17.32 x 15.63 x 10.12 in / 440 x 397 x 257 mm
Net weight (lbs/kg)	19.12 / 8.7
Recommended charge/discharge current (A)	25
Maximum charge/discharge current (A)	35
Overvoltage category (OVC)	II
Protection class	I

#### **Environmental Requirements**

Input/output voltage range (V)	70 - 550
Environment	Outdoor
Rated power (kW)	11.5
Maximum power (kW)	16.1
Altitude (ft/m)	≤ 6561.68 ft / 2000 m
Pollution degree	PD 3
Noise level	< 30 dB
Operating temperature	<b>PSI-X-SYS-H5.8-HV-V2</b> 0°C ~ 55°C (without heating function)
Protection rating	IP65

## 4. Installation

### 4.1. Installation Requirements

During system assembly, avoid touching the terminals with metal objects or bare hands. The unit provides a safe source of electrical energy when used according to its design.

The safety precautions and warning messages previously described in this section must be followed. If any of these precautions are not fully understood, or in case of doubt, contact customer service for guidance.

The Safety section may not include all regulations applicable in your region.

Ensure that the installation location meets the following conditions:

- The building is designed to withstand earthquakes.
- The site is located away from the sea to avoid salt water and humidity, at more than 0.62 mile / 997.79 meters.
- The floor is flat and level.
- No flammable or explosive materials are present within a radius of at least 3 ft / 0.91 m.
- The environment is shaded and cool, protected from heat and direct sunlight.
- Temperature and humidity remain at a constant level.
- There is little dust and dirt in the area.
- No corrosive gases are present, including ammonia and acid vapors.

In practice, the installation requirements of the parallel unit may vary depending on the environment and the site.

In this case, strictly follow the requirements of the applicable local laws and standards.

## 4.2. Safety Equipment

Installation and maintenance personnel must work in accordance with applicable federal, state, and local regulations, as well as industry standards related to product installation.

Personnel must wear the protective equipment listed below to prevent short circuits and personal injury.

- Insulating gloves
- Safety goggles
- Safety shoes

## 4.3. Tools

The following tools are required to install the unit:

- Torque screwdriver
- Phillips screwdriver
- Hex key
- Phillips-head screwdriver
- Flat-head screwdriver
- Torque wrench
- Tape measure
- Drill
- Pencil or marker

## 4.4. Installation

### 4.4.1. Inspection for Transport Damage

Ensure that the unit is intact during and after transportation. In case of visible damage such as cracks, contact your supplier immediately.

### 4.4.2. Unpacking

Unpack the unit by removing the packaging tape. Ensure that the unit modules and the corresponding components are complete. Refer to the packing list in section 4.4.3 and carefully check the list. If any items are missing, please contact our company or your distributor directly.



#### CAUTION!

According to local regulations, several people may be required to move the equipment.



#### WARNING!

Strictly follow the installation steps. Our company will not be responsible for injuries or losses caused by incorrect assembly or improper use.

### 4.4.3. Accessories

For use with PSI-X-SYS-H5.8-HV-V2

Accessory	Quantity
Power cable (+) — (6.56 ft / 200 cm)	1
Power cable (-) — (6.56 ft / 200 cm)	1
Power cable (+) — (7.22 ft / 220 cm)	2
Power cable (-) — (7.22 ft / 220 cm)	2
BMS communication cable — (6.56 ft / 200 cm)	2
CAN / RS485 communication cable — (7.22 ft / 220 cm)	2
Series connection connector	2
Expansion anchors	2

Expansion screws	2
Power cable removal tool	1
Rotation wrench	1
Grounding terminals	2
Documents	1

#### 4.4.4. Mounting Steps

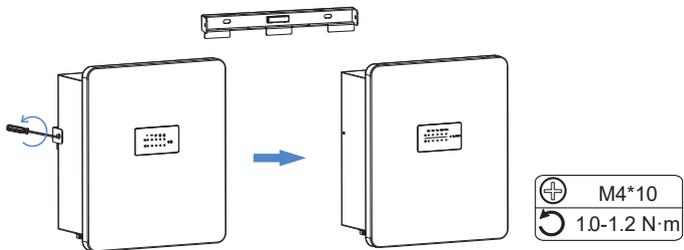
##### Wall Mounting

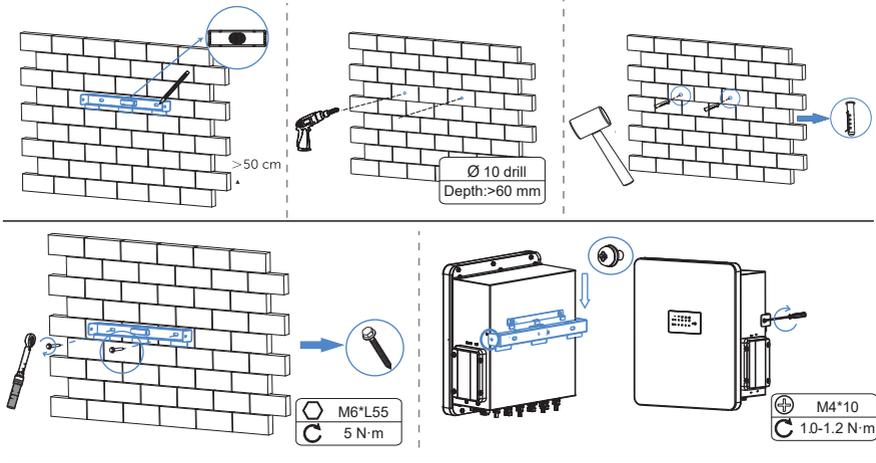
Step 1: Fix the wall bracket to the wall

- The bracket must be removed from the unit. Measure and mark the position of the two holes. The bubble of the spirit level must be centered. The height difference between the battery modules and this position must be > 50 cm.
- Drill holes with a depth of at least 2.36 inches / 60 mm using a drill.
- Install the expansion anchors in the wall and fix the wall bracket using a torque wrench.

Step 2: Mount the unit onto the wall bracket

- Hang the unit on the wall bracket, move the unit closer and align it with the bracket.
- Insert the hook located at the back of the unit precisely into the three slots of the rear plate. (Torque: 1.0–1.2 N·m)



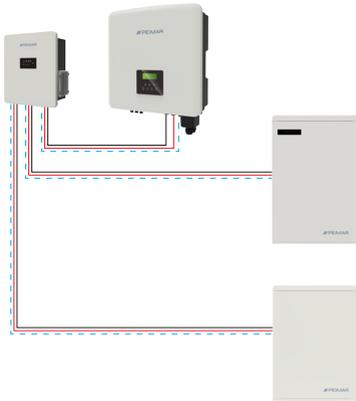


**CAUTION!**

Ensure that the system is always exposed to ambient air. The system is cooled by natural convection. If the system is fully or partially obstructed, cooling may be affected.

### 4.5. Mounting Steps

Depending on the connection with different battery systems, there are two parallel connection options, as detailed below:



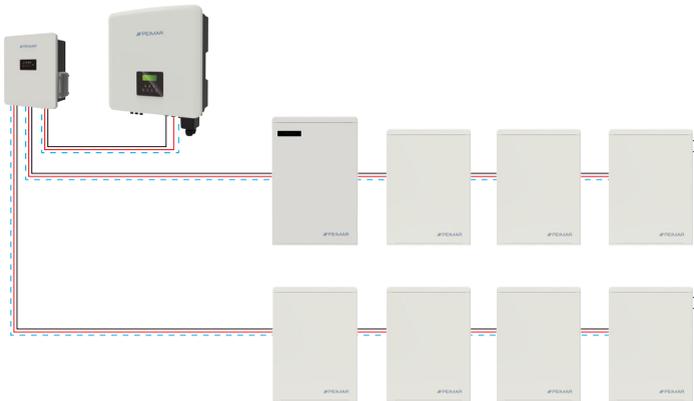
Connection with one PSI-X-PRL-BMS-2 and one PSI-X-5.8SLV-V2 battery module



Connection with one PSI-X-PRL-BMS-2 and 3 PSI-X-5.8SLV-V2 battery modules



Connection with one PSI-X-PRL-BMS-2 and 5 PSI-X-5.8SLV-V2 battery modules



Connection with one PSI-X-PRL-BMS-2 and 7 PSI-X-5.8SLV-V2 battery modules



**CAUTION!**

- Only slave battery modules are supported for connection.
- Connecting only master battery modules is not supported.
- The number of modules connected on the master side and the slave side must be consistent.
- A maximum of four modules can be connected on each side.

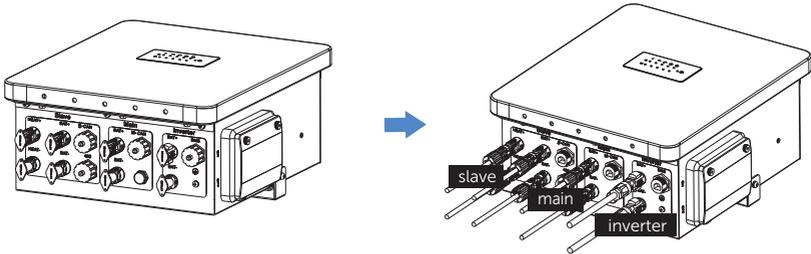
**NOTE!**

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The recommended installation distance between the unit and the battery group (including the slave group and the master group) is 11.81–23.62 inches / 300–600 mm, and the distance between modules is 9.84 inches / 250.00 mm.

Before installation, ensure that the wall can support the weight of the installed batteries. Otherwise, choose floor installation.

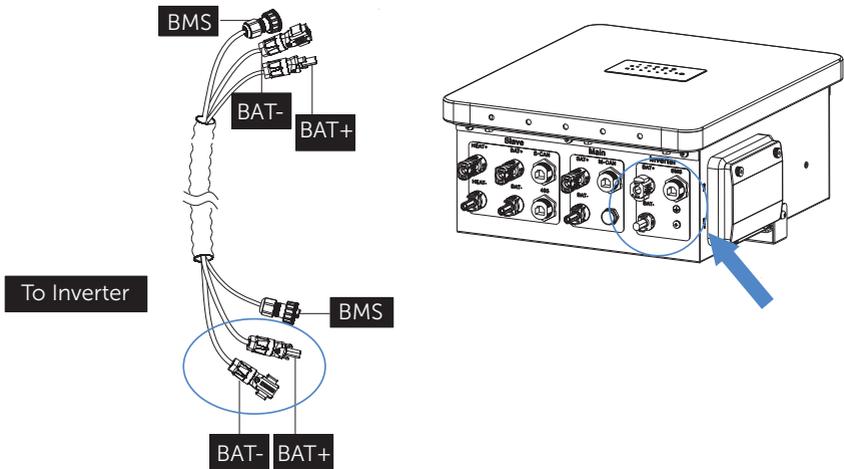
## 4.6. Cable Connection



### NOTE!

Always ensure that unused ports remain sealed.

### 4.6.1. Connection of Cables to the Inverter



Connection of the cables from the parallel unit to the inverter:

BAT+ to BAT+

BAT- to BAT-

BMS to BMS



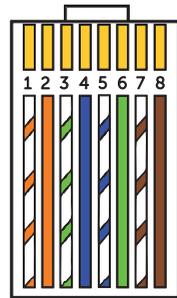
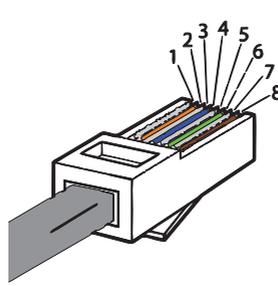
**NOTE!**

- It is recommended to protect the cables using corrugated conduits.
- If a cable is connected to the wrong port, you can insert the power cable removal tool into the opening located on the side of the connector to easily disconnect the cable.
- Please refer to the “Battery Connection” section of the inverter user manual or quick installation guide for more details regarding the connection to the inverter.

• Connection of the BMS Communication Cable

The wiring sequence of the communication cable is as follows:

1. Orange stripes on white
2. Orange
3. Green stripes on white
4. Blue
5. Blue stripes on white
6. Green
7. Brown stripes on white
8. Brown



Sequence	1	2	3	4	5	6	7	8
BMS	/	/	/	CAN_H	CAN_L	/	A1	B1

The BMS must communicate with the inverter to ensure proper operation.



**NOTE!**

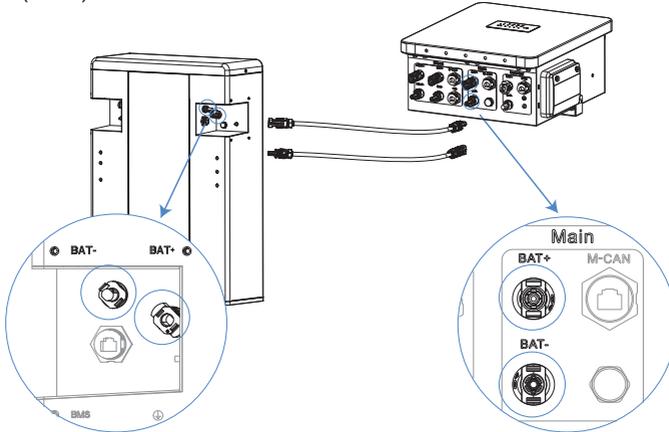
The BMS communication cable is shielded with an aluminum foil.

### 4.6.2. Connection of Battery Modules

For BMS PSI-X-PRL-BMS-2 + PSI-X-5.8MST-V2 with 1 / 3 / 5 / 7 PSI-X-5.8SLV-V2 battery pack(s)

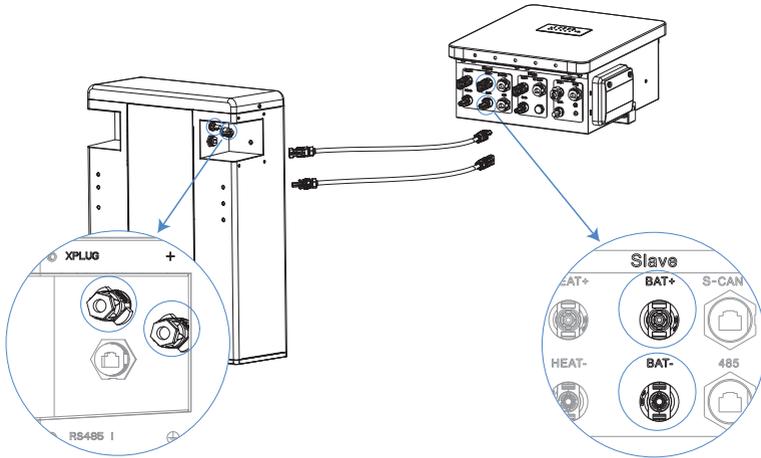
From BMS PSI-X-PRL-BMS-2 to PSI-X-SYS-H5.8-HV-V2:

- BAT+ (Main) to BAT+ of PSI-X-5.8MST-V2
- BAT- (Main) to BAT- of PSI-X-5.8MST-V2



Slave-side connection:

- BAT+ (Slave) to « + » of PSI-X-5.8SLV-V2
- BAT- (Slave) to « XPLUG » of PSI-X-5.8SLV-V2



**NOTE!**

If one or more ports remain unconnected after completing the wiring, remember to place waterproof caps on these ports.

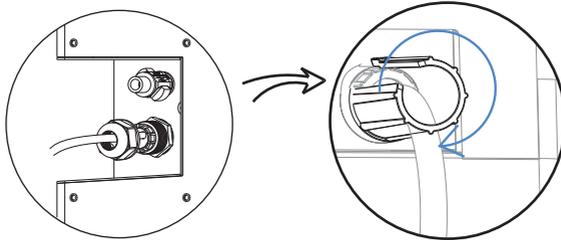
To form a complete circuit, connect “-” and “YPLUG” using a series connection cable on the right side of the last battery module.

Please refer to the PSI-X-SYS-H5.8-HV-V2 user manual / quick installation guide for a detailed tutorial on connecting the cables between PSI-X-5.8MST-V2 and PSI-X-5.8SLV-V2 battery modules.

### 4.6.3. Communication Cable Connection

1. A protective cap is present on the RS485 connector. Unscrew the cap and connect one end of the RS485 communication cable to the RS485 connector. Tighten the plastic nut mounted on the cable using a rotation wrench. The procedure is the same as described above for connecting the COM1 / BMS connector.

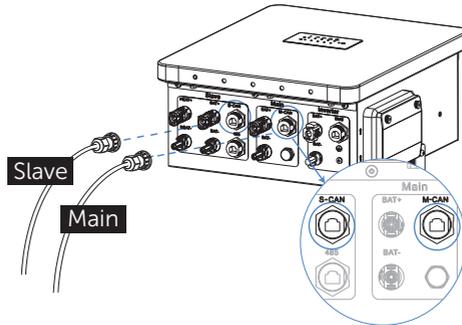
For PSI-X-SYS-H5.8-HV-V2: RS485 I, BMS



2. Connect the communication cable of the parallel unit to the COMM / BMS / RS485 I communication port located on the left side of the battery module.

PSI-X-5.8SLV-V2 to Parallel Unit (SLAVE): RS485 I

PSI-X-5.8MST-V2 to Parallel Unit (MAIN): "M-CAN"

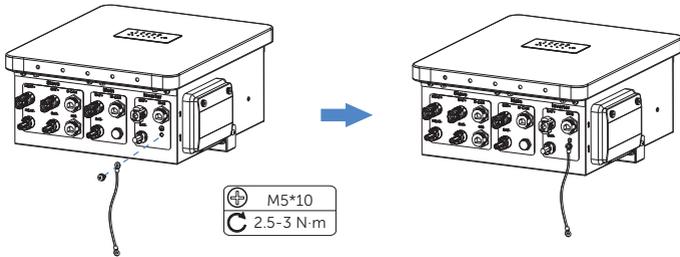


Communication cable wiring order:

Sequence	1	2	3	4	5	6	7	8
SLAVE RS485 I	VCC_485	GND_485	B2	N-	P+	A2	VCC_485_2	GND_485
MAIN M-CAN	/	GND	/	BMS_H	BMS_L	/	A1	B1

#### 4.6.4. Ground Cable Connection

Remove the M5×10 screw located under the PSI-X-PRL-BMS-2 using a screwdriver, then attach the ground cable (10 AWG / 6 mm<sup>2</sup>) to the corresponding grounding terminal.



#### NOTE!

When the PSI-X-PRL-BMS-2 BMS is connected to PSI-X-SYS-H5.8-HV-V2 battery modules, if the BMS port of the PSI-X-5.8MST-V2 is mistakenly connected to the S-CAN port of the PSI-X-PRL-BMS-2, the system can still operate normally. However, in this configuration, the master group cannot be updated correctly.

## 5. Commissioning

### 5.1. Unit Configuration

The DIP switch is used to configure communication between the battery module(s) and the device. By default, only two battery groups can be paired for operation.

The cold start function (black-start) is used only in off-grid applications and when no other power source is available. To start the black-start function, press and hold the button for 20 seconds until the indicator begins to blink slowly, indicating that the cold start has been successful. If the unit is started in black-start mode, note that even without BMS communication, the port still carries high voltage, with a risk of electric shock.

If BMS communication is still not established within 3 minutes after starting black-start mode, it indicates that the cold start has failed.

After powering on the PSI-X-PRL-BMS-2 BMS, if the indicators alternate red and green for more than two minutes, then switch to green blinking, and the inverter reports “BAT\_ClusterCommuCountMis-Match”, check the communication connection of the second group, as well as the power status of the PSI-X-5.8MST-V2 connected to the second group.

After powering on the PSI-X-PRL-BMS-2 BMS, if the indicators alternate red and green for more than three minutes, then switch to red blinking for one second followed by three seconds off, and the inverter reports “BMS\_Internal\_Err\_1”, this indicates that the slave corresponding to position 1 has failed to establish communication. According to the error number, check whether the communication line of the slave at the corresponding position is correctly connected.

The PSI-X-PRL-BMS-2 BMS must be connected to two battery groups simultaneously in order to operate correctly, and the number of slave modules in the two groups must be identical. The second group connected to the PSI-X-PRL-BMS-2 BMS must include a PSI-X-5.8MST-V2. Both battery groups connected to the PSI-X-PRL-BMS-2 BMS must consist of PSI-X-5.8SLV-V2 modules.

It is forbidden to connect or disconnect power cables while the PSI-X-PRL-BMS-2 BMS is operating.

## 5.2. Commissioning

Check the model number of each battery module to ensure they are all the same model.

Once all battery modules have been installed, follow the steps below to start the unit:

1. Open the waterproof cover of the unit.
2. Set the circuit breaker to the "ON" position.
3. Press the POWER button to start the unit.
4. Reinstall the cover on the unit.
5. Turn on the DC switch of the inverter.
6. After the unit starts, check that the waterproof cover is properly closed again.

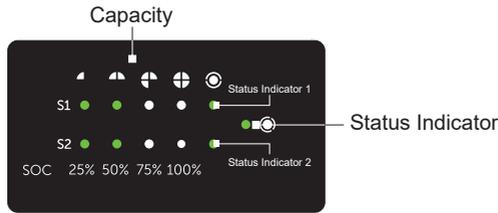


### **NOTE!**

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Pressing the POWER button frequently may cause a system error. Wait at least 10 seconds after pressing the POWER button before attempting another operation.

### 5.3. Status Indicators



The LED indicators located on the front panel of the BMS and the battery modules indicate the operating status.

No.	BMS Status	Mode
1	The green LED blinks (1 second on and 4 seconds off)	The inverter sends an idle command
2	1) When both groups have faults, the status indicators of both groups blink at 0.5-second intervals. The general status indicator remains solid red. 2) When one of the two groups has a fault and the status indicator is blinking, one group blinks red (1 second on and 4 seconds off), while the other group keeps the green indicator on. * When the fault is reported, the fault indicator of the corresponding branch remains red.	Protection
3	The status indicator of one of the two groups is off when operating normally. The general status indicator blinks green (1 second on and 4 seconds off) if an inverter is connected.	Normal
4	The green LED blinks once every 0.5 s	BMS update
5	Indicator off	Power off

The capacity indicators display the State of Charge (SOC):

- When the battery module is neither charging nor discharging, the indicators are off.
- When the battery module is charging, some blue LEDs blink every 5 seconds, while some blue LEDs remain on.

Example SOC 60%:

1. The last two blue LEDs remain on.
2. The third blue LED blinks once every 5 seconds.

- When the battery module is discharging, the blue LEDs blink every 5 seconds.

Example with SOC 60% during discharge:

1. The last three blue LEDs blink once every 5 seconds.

## 6. Troubleshooting

Check the indicators on the front of the unit to determine its status. An alert state is triggered when a condition, such as overvoltage or excessive temperature, exceeds the design limits. The unit periodically sends its operating status to the inverter. When the unit exceeds the prescribed limits, it switches to alarm mode. When an alarm is reported, the inverter immediately stops operating. Use the inverter monitoring software to identify the cause of the alarm.

Possible alarm messages are as follows:

Alarm Message	Description	Troubleshooting
BMS_Internal_Err	1) DIP switch in the wrong position 2) Communication between battery modules is interrupted	1) Set the DIP switch to the correct position 2) Check that the communication cable between the battery modules is properly connected
BMS_OverVoltage	Battery overvoltage	Contact your distributor or the manufacturer for assistance
BMS_LowerVoltage	Battery undervoltage	Contact your distributor or the manufacturer for assistance
BMS_ChargeOCP	Battery charge overcurrent protection	Contact your distributor or the manufacturer for assistance
BMS_DischargeOCP	Battery discharge overcurrent protection	Contact your distributor or the manufacturer for assistance
BMS_TemHigh	Battery temperature too high	Wait until the cell temperature returns to normal
BMS_TemLow	Battery temperature too low	Wait until the cell temperature returns to normal
BMS_CellImbalance	Capacity imbalance between cells	Contact your distributor or the manufacturer for assistance
BMS_Hardware_Protect	Battery hardware protection triggered	Contact your distributor or the manufacturer for assistance
BMS_Insulation_Fault	Battery insulation fault	Contact your distributor or the manufacturer for assistance
BMS_VoltSensor_Fault	Battery voltage sensor fault	Contact your distributor or the manufacturer for assistance
BMS_TempSensor_Fault	Battery temperature sensor fault	Contact your distributor or the manufacturer for assistance

BMS_CurrSensor_Fault	Battery current sensor fault	Contact your distributor or the manufacturer for assistance
BMS_Relay_Fault	Battery relay fault	1) Ensure the power cable is correctly connected to the BMS power connector (XPLUG) 2) If the problem persists, contact your distributor or the manufacturer
BMS_Type_Unmatch	BMS type mismatch	Contact your distributor or the manufacturer for assistance
BMS_Ver_Unmatch	BMS version mismatch	Contact your distributor or the manufacturer for assistance

## 7. Decommissioning

### 7.1. Unit Disassembly

To stop the system and remove the unit, follow the steps below:

- Depending on the actual situation, switch off the circuit breaker located between the inverter and the parallel unit.
- Press the POWER button to stop the unit.
- Set the circuit breaker to the OFF position.
- Ensure that all indicators on the unit are off.
- Disconnect the cables between the unit and the inverter.
- Disconnect the series wiring terminal of the unit.
- Disconnect the remaining cables.
- If necessary, remove the unit from the wall bracket to detach it from the wall.

### 7.2. Packaging

Pack the unit in its original packaging.

If the original packaging is no longer available, use an equivalent carton or box that meets the following criteria:

- Suitable for loads exceeding 154.32 lb / 69.94 kg
- Properly closed and sealed

## 8. Maintenance

If the storage ambient temperature is between 86°F and 122°F / 30°C and 50°C, recharge the batteries at least once every 6 months.

If the storage ambient temperature is between -4°F and 86°F / -20°C and 30°C, recharge the batteries at least once every 12 months.

If the batteries have not been used for more than 9 months, they must be recharged to at least 50% SOC each time.

During the first installation, the interval between the manufacturing dates of the battery modules must not exceed 3 months.

If a battery is replaced or added to increase capacity, the SOC of each battery must be consistent. The maximum SOC difference must be  $\leq \pm 5\%$ .

If the user wishes to increase the capacity of the battery system, the SOC of the existing system must be approximately 40%.

### Periodic Maintenance

Only qualified personnel are allowed to perform the following operations.

During operation of the unit, maintenance personnel must regularly inspect and maintain the equipment. The specific operations are as follows:

1. Check whether the cooling fans at the rear of the unit are covered with dust; clean the equipment and remove accumulated dust if necessary. This check must be performed regularly.
2. Check that the unit indicators show a normal status, that the buttons are functioning normally, and that the system display operates correctly. This check must be performed at least once every 6 months.
3. Check whether the input and output cables are damaged or aged. This check must be performed at least once every 6 months.
4. Check that the grounding terminal and grounding cable are securely connected, and that all terminals and ports are properly sealed. This check must be performed every 12 months.
5. Clean the unit panels and check their safety at least once every 6 months.

## 9. Warranty

The manufacturer guarantees this product when it is installed and used in accordance with the instructions described in this manual.

Any violation of the installation procedure or any use of the product not described in this manual will immediately void all applicable product warranties.

The manufacturer does not provide any warranty coverage and assumes no responsibility for direct or indirect damage or defects resulting from the following causes:

- Force majeure events (flood, lightning, overvoltage, fire, storm, etc.).
- Incorrect or improper use.
- Incorrect installation, commissioning, or start-up (contrary to the instructions detailed in the installation manual supplied with each product).
- Insufficient ventilation and air circulation resulting in minimal cooling or inadequate natural airflow.
- Damage occurring during transportation.
- Unauthorized repair attempts.
- Failure to properly maintain the equipment (On-site inspection by a qualified technician is possible after 120 months of continuous operation).
- Warranty claims made beyond 120 months from the commissioning date if proper equipment maintenance cannot be demonstrated.
- External influences, including unusual physical or electrical stress (overvoltages, inrush currents, etc.).
- Use of incompatible inverters or equipment.
- Connection to inverters of other brands without authorization from our company.



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