

Packing List (BMS Parallel Box-II)

Note: The Quick Installation Guide briefly describes required installation steps. If you have any questions, refer to the Installation Manual for more detailed information





Installation Prerequisites

Ensure that the installation location meets the following conditions:

- The building is designed to withstand earthquakes • The location is far from the sea to avoid salt water and humidity, over 0.62 miles/997.79 meters
- The floor is flat and level
- There are no flammable or explosive materials, at a minimum of 3 ft//0.91 m
- The ambience is shady and cool, away from heat and direct sunlight The temperature and humidity remains at a constant level
- There is minimal dust and dirt in area
- There are no corrosive gases present, including ammonia and acid vapor

• Where charging and discharging, the ambient temperature ranges from 32°F/0 \degree to 113°F/45 \degree In practice, the requirements of battery installation may be different due to enviroment and locations.

In that case, follow up the exact requirements of the local laws and standards

Note!

The SolaX battery module is rated at IP55 and thus can be installed outdoors as well as indoors. However, if installed outdoors, the battery pack shall not be exposed to direct suplight and moisture

Note!

If the ambient temperature exceeds the operating range, the battery pack will stop running to protect itself.

The optimal temperature range for operation is 59°F/15°C to 86°F/30°C. Frequent exposure to harsh temperatures may deteriorate its performance and lifetime.

Note!

For the first installation, the interval among manufacture dates of battery modules shall not exceed 3 months

IV

Battery Installation

The bracket needs to be removed from the box.



- Lock the joint between hanging board and wall bracket with M5 screws. (Torque: 1.2-1.5 N·m)



- Drill two holes with driller (ø 0.39 inch/10 mm) - Depth: at least 3.15 in/80.00 mm



- Fix the box to the bracket with M4 screws



V *.....*-F-----Group (1) *.....* ______ Group 2

Overview of Installation

The recommended installation distance between the box and the battery group (incl. group 1 and group 2) is 11.81-23.62 inches/300-600 mm, and the distance between the modules is 9.84 inches/250.00 mm.

Note!

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

- If one of the batteries is replaced, the SOC of the battery after replacement shall be consistent with those of batteries that have not been replaced, with the maximum difference of between -5% and 5%.

- If users want to increase their battery system capacity, please ensure that the SOC of the existing system capacity is about 40%. The manufacture date of the new battery shall not exceed 6 months; in case of exceeding 6 months, please charge the new battery to around 40%

- Before installation, please make sure that the wall can bear the weight of the batteries installed. If not, please take the mode of floor installation.



Connecting Cables to Inverter

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Box to Inverter:

BAT+ to BAT+:

BAT- to BAT-;

BMS to BMS

Step 1. Strip the cable (A/B:6.56 ft/2 m) to 0.59 in/15 mm.

- Step 2. Insert the stripped cable up to the stop (negative cable for DC plug (-) and positive cable for DC socket (+) are live). Hold the housing on the screw connection.
- Step 3. Press down the spring clamp until it clicks audibly into place (You should be able to see the fine wire strands in the chamber)



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Communication Cable Connection

For Box:

Insert one end of the BMS communication cable without cable nut directly to the BMS port of the Inverter. Assemble the cable gland and tighten the cable cap.

For battery moudels:

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Connect the RS485 II communication system on the right side to RS485 I of the subsequent battery module on the left side. Note: There is a protection cover for the RS485 connector. Unscrew the cover and plug one end of the RS485 communication cable to the RS485 connector. Tighten the plastic screw nut which is set on the cable with a rotation wrench.





Battery Module to Battery Module

- Battery module to battery module(Get the cables through the conduit):
- 1. "YPLUG" on the right side of HV11550 to "XPLUG" on the left side of the next battery module.
- 2. "-" on the right side of HV11550 to "+" on the left side of the next battery module.
- 3. "RS485 I" on the right side of HV11550 to "RS485 II" on the left side of the next battery module.
- 4. The rest battery modules are connected in the same way.

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5. Insert the series-connected cable at "-" and "YPLUG" on the right side of last battery module to make a complete circuit.



XI

again.

(4)

Commissioning

After all battery modules are installed, please follow the following steps to start the box:

- 1) Configure the DIP to the corresponding number according to the number of battery module(s) that has(have) been installed;
- 2) Remove the cover board of the box;
- 3) Move the circuit breaker switch to "ON";
- 4) Press the POWER button to start the box; 5) Reinstall the cover board to the box:
- 6) Turn on the inverter AC switch:

7) After starting the box, please confirm that the waterproof cap is closed







Ground Connection



Note!

Caution!

groups must be the same.

To adjust the DIP switch, a small flat-head screwdriver shall be prepared by users themselves.

Configuration activated by inverter: 0- Matching a single battery group (group 1 or group 2) 1- Matching both battery groups (group 1 and group 2)