



SWR

5.12 / 7.68 / 10.24  
12.80 / 15.36 / 17.92  
20.48 kWh

High Voltage Battery

Quick  
Installation

File version:202409-VI-EN Information might be subject to change without notice during product improving.

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Packing List

Battery Controller		
Battery Controller(PDU)	Short cap	Battery connectors*2
Battery Base	3M black external communication cable	Case setting screw*2
3M DC+ red external power cable	3M DC- black external power cable	Warranty card
Product Manual		

Battery Module		
Battery Module	Case setting screw*2	

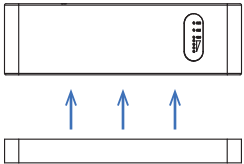
Equipment Installation

Installation preparation

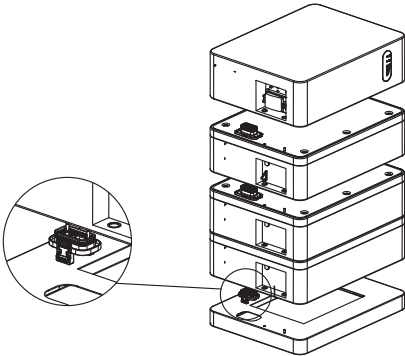
1. Make sure that the environment meets all technical requirement.
2. Prepare equipment and tools for installation.
3. Confirm that the DC breaker is in the OFF state to ensure that it is no live.

Mechanical Installation

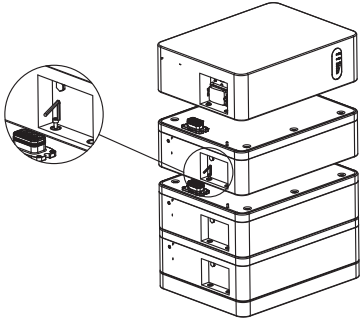
- 1.Determine base placement, Ensure that the base is horizontal.
- 2.Separate the PDU from the battery base.



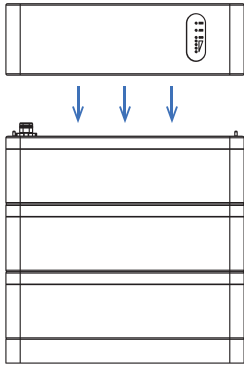
3.Insert the Short cap into the bottom battery pack, then place the battery with the shorting cover on top of the base.



4.Tighten the screws to lock the battery module before installing next batterymodule. Please install the battery modules one by one(maximum of eight battery modules can be installed).






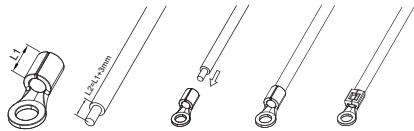
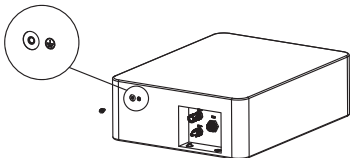
5.Place PDU on battery module and Tighten the screws to lock the battery module.



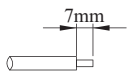
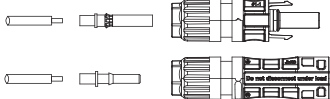
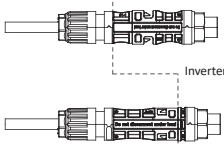
Electrical Installation

Ground Connection

Connect PE line from Battery Controller to ground

Procedure	
Step 1	<p>Prepare a one-core cable (4~6 mm<sup>2</sup>), and then find the ground terminal in the accessories.</p> <div></div> <p>one-core cable (4~6 mm<sup>2</sup>)      Phillips screw      OT terminal</p>
Step 2	<p>Strip the grounding cable insulation(length" L2), insert the stripped cable into the ring terminal, and then clamp it.</p> <div></div>
Step 3	<p>Find the ground connection port on the Battery Controller, and screw the ground wire on the PDU.</p> <div></div>

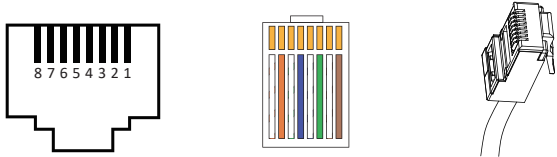
Electrical Connection

Procedure	
Step 1	<p>Prepare a 6 mm<sup>2</sup> BAT cable, and trim 7mm of insulation from the wire end.</p> <div></div>
Step 2	<p>Separate the DC connector (battery) as below.</p> <div></div>
Step 3	<p>Insert the stripped cable into the pin contact, ensuring all conductor strands are fully enclosed within the pin contact.</p>
Step 4	<p>Use a crimping tool to crimp the pin contact. Place the pin contact with the stripped cable into the appropriate slot of the crimping tool and crimp it securely.</p>
Step 5	<p>Insert the pin contact through the cable nut to secure it into the back of the male or female plug. A “click” sound or tactile feedback indicates that the pin contact is properly seated.</p> <div></div>


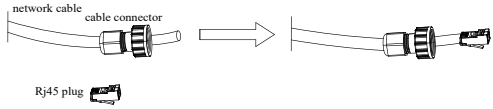
Step6	Insert the battery terminals into the BAT+ and BAT- ports on the battery controller.
Unlock	<p>Unlock the DC connector.</p> <p>Use the specified wrench tool.</p> <p>When separating the DC + connector, push the tool down from the top.</p> <p>When separating the DC - connector, push the tool down from the bottom.</p> <p>Separate the connectors by hand.</p>

Communication Connection

The BMS (Battery Management System) communication interface is used for CAN communication between the hybrid inverter and the lithium battery BMS.If this wire is poor, the communication between the hybrid inverter and BMS will not work properly. The stable SOC value displayed on the hybrid inverter home page is a good performance of communication.



Pin	1	2	3	4	5	6	7	8
Port								
BMS	5V	/	GND	/	CANL	/	CANH	/

Procedure	
Step 1	<p>Prepare a standard network cable and cable connector, then insert the network cable through the cable connector.</p> <div></div>
Step 2	<p>Crimp the cable with a RJ45 plug which is inside of the cable connector.</p> <div></div>
Step 3	<p>Insert the communication cable into the RJ45 connector. Lock the connector by turning clockwise.</p>

Start Up

- If all of the items mentioned above have been met then proceed as follows to comission and start-up the battery for the first time:
1. Turn the circuit breaker on the PDU to the "ON" position.
  2. Press the WAKE button .
  3. Wait for the status LED to turn blue,and the battery will enter into working mode.
  - 4.Check whether the battery indicator of the inverter is on. Start inverter according to inverter start-up procedure.
  5. Commission the inverter according to the inverter commissioning procedure using the Solavita Cloud App.
  6. Read the battery status information using the Solavita Cloud App and confirm that the BESS is communicating with the inverter, observe the LED’s on the BESS to determine the current status.



For more information, please scan the QR code to download the user manual.