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# 1 Notes on this Manual

## Scope of Validity

This manual is an integral





The HEC2-BHP system (without inverter) is cableless installation design which includes pre-installed internal connections. The modular stack installation directly plug-in and completes the series connection between battery modules. The connection between the control from R&D about the BMS box model number system (from BMS main box) and the inverter requires a cable connection using PCS-BAT connector which includes power connection, communication and grounding. Also, there's a separate grounding connection between BMS main box and inverter.

## 2 battery modules in series

Before connecting to PV modules, please install a separately DC circuit breaker between inverter and PV modules.

It is very important for system safety and efficient operation to use appropriate cable for PV module connection. To reduce risk of injury, please use the proper recommended cable size.

When select PV array, make sure the open circuit voltage should be greater than the minimum operating voltage and should be

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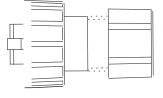
Installation Steps

1. Use professional tools to peel off the cables according to the requirements

2. Insert the conductor into the suitable ferrule acc. to DIN 46228-4 and crimp the contact
3. Unscrew the swivel nut from the threaded sleeve and thread the swivel nut and threaded sleeve over the AC cable

4. Crimp the terminals with crimping pliers
5. Set the parts on the cable, Insert the terminal holes in sequence

6. Crimp the wire with a hexagonal screwdriver and turn the screw.  
: wire according to the L, N,



White-orange  
orange  
white-green  
blue  
white-blue  
green  
white-brown  
brown

1. The installer will prepare all the network cables as per requirements (for PM, DRM, and COM/LCD interface) and the length of the cable will be determined according to the site environment.
2. Remove the cable insulation and make the RJ45 connector according to the cable line order



Interface description

This interface is a dry contact. COM port uses RS485 communication, the communication protocol is the same as WIFI port 485 protocol, used for client power grid scheduling monitoring.



| Pin | Description | Pin | Description |
|-----|-------------|-----|-------------|
| 1   | DO2A        | 5   | GND         |
| 2   | DO2B        | 6   | 485B        |
| 3   | 485A        | 7   | DO1A        |
| 4   | VCC         | 8   | DO1B        |



Interface description

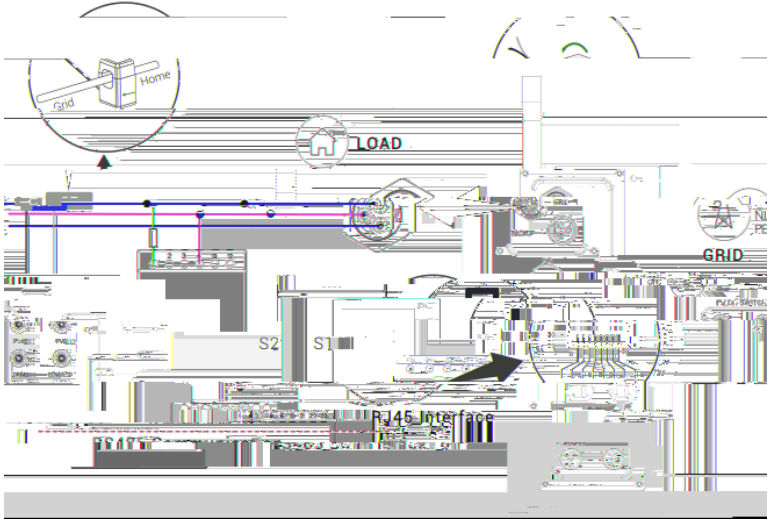
You must connect external CTs or a smart grid meter between the inverter and the power grid. If you want to connect a smart meter, note that only one meter is necessary for each inverter. The meter must be mounted and connected at the grid transition point (feed-in point) so that it can measure the grid reference and feed-in power.

Procedure

- : Prepare the communication wires, power cable, and tools for the meter connection

: Installation of CT. Refer to the introduction of CT installation for specific steps
- : Selection of a suitable position/location for fixing the DIN track, Mount the Meter on the DIN track

: Install the cables correctly as shown



Wiring of Smart Meter Connection (Example, ACRIORH-D10TE)

- Switch On:
- When turning on the system, it is very important to follow the steps below to prevent damage to the system.
- : Please check the installation again before turning on the system.

Power-on process:

: Open the protective cover and close the BMS control box circuit breaker

: Press the BMS control box button and check the status of the light strip

: Turn on the photovoltaic isolation switch

: Turn on the grid-side circuit breaker

Switch Off:

: Turn off the grid-side circuit breaker

: Turn off the PV disconnect switch

: Open the protective cover and turn off the BMS control box circuit breaker