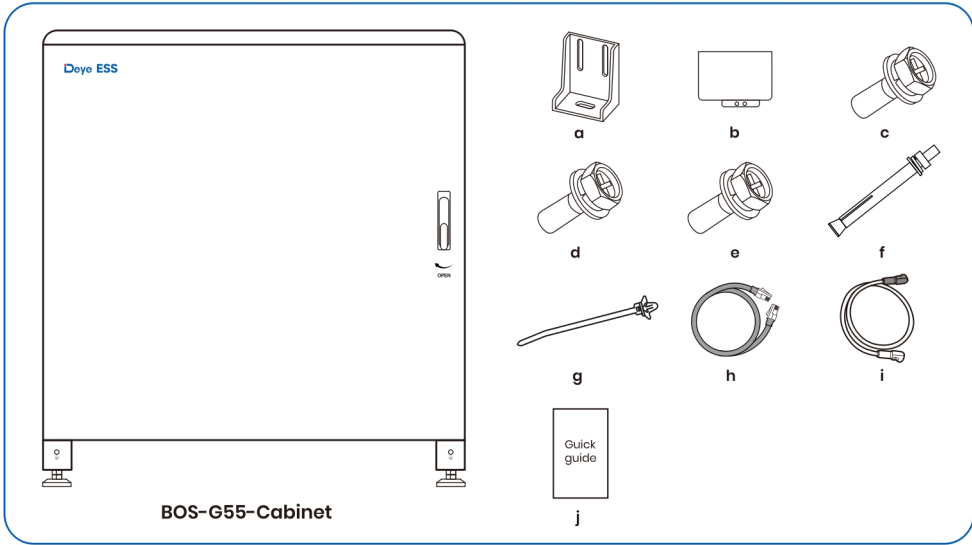


Quick Guide

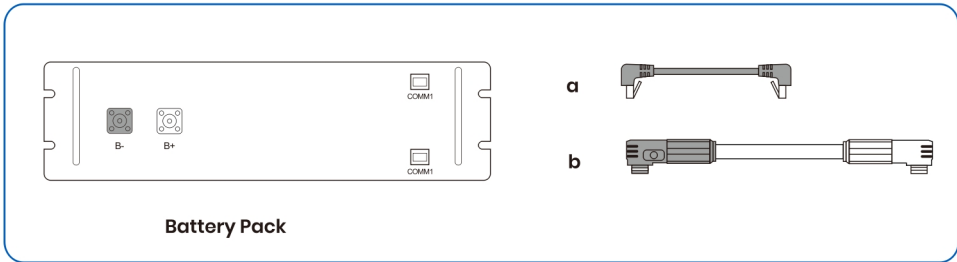
BOS-G55-Cabinet

Packing List

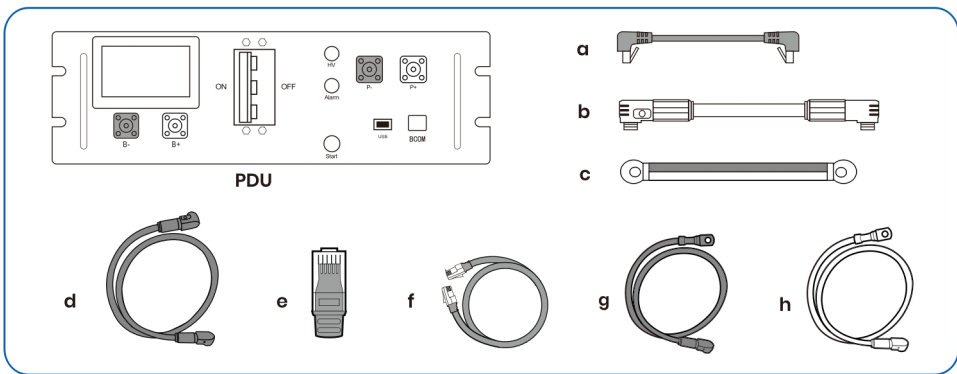


- a: Cabinet Mounting Feet x4
- b: Terminal Block Cover x1
- c: M5*16 Hex Head Bolt Assembly x2
- d: M6*16 Hex Head Bolt Assembly x48
- e: M8*20 Hex Head Bolt Assembly x8
- f: M12*80 Expansion Bolt x4
- g: Cable Tie x10
- h: BMU-BMU Ethernet cable x1
- i: Battery series power cable x1
- j: Quick Guide

- This quick guide is based on the BOS-G battery system. Scan the QR code at the end for details on BOS-G-Pro.



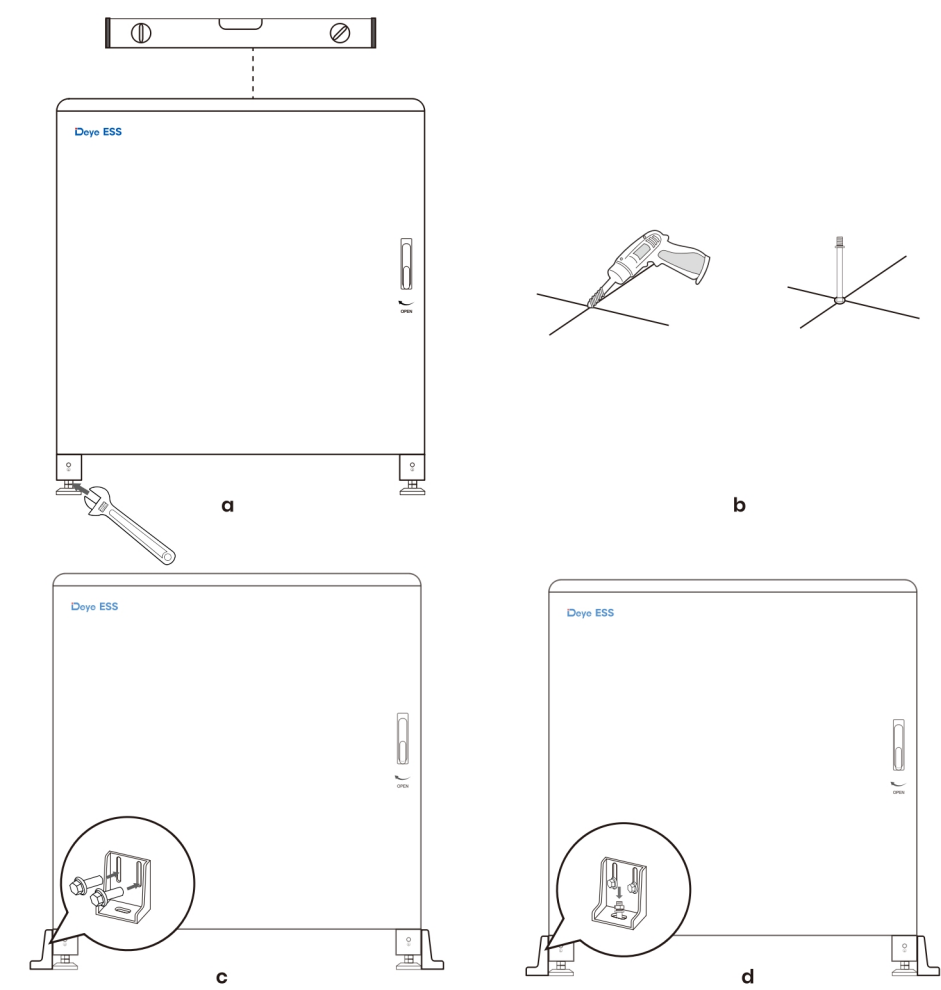
- a: BMU-BMU communication cable
- b: Battery series power cable



- a: PDU-BMU communication cable
- b: PDU-BMU positive power cable
- c: Grounding cable
- d: PDU-BMU negative power cable
- e: Termination resistor
- f: Ethernet cable
- g: PCS-PDU negative power cable
- h: PCS-PDU positive power cable

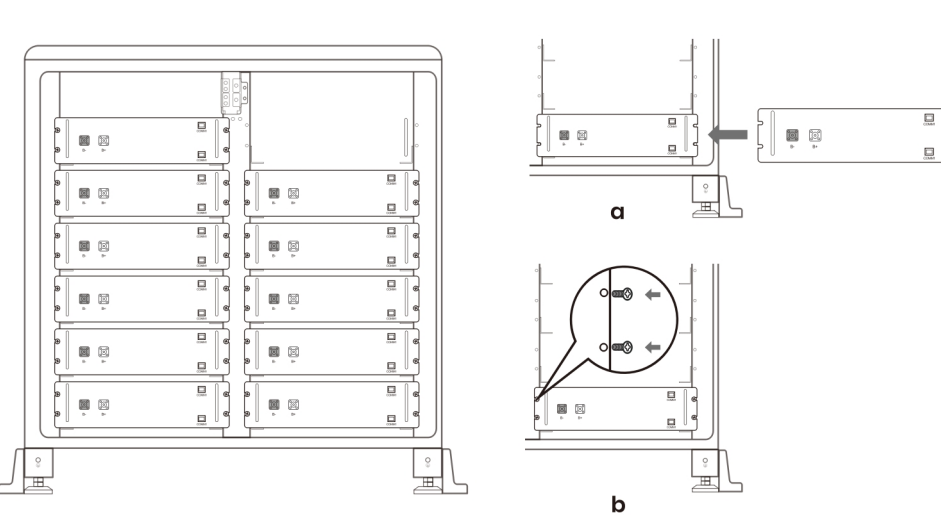
Installation

1. Install Cabinet Mounting Feet



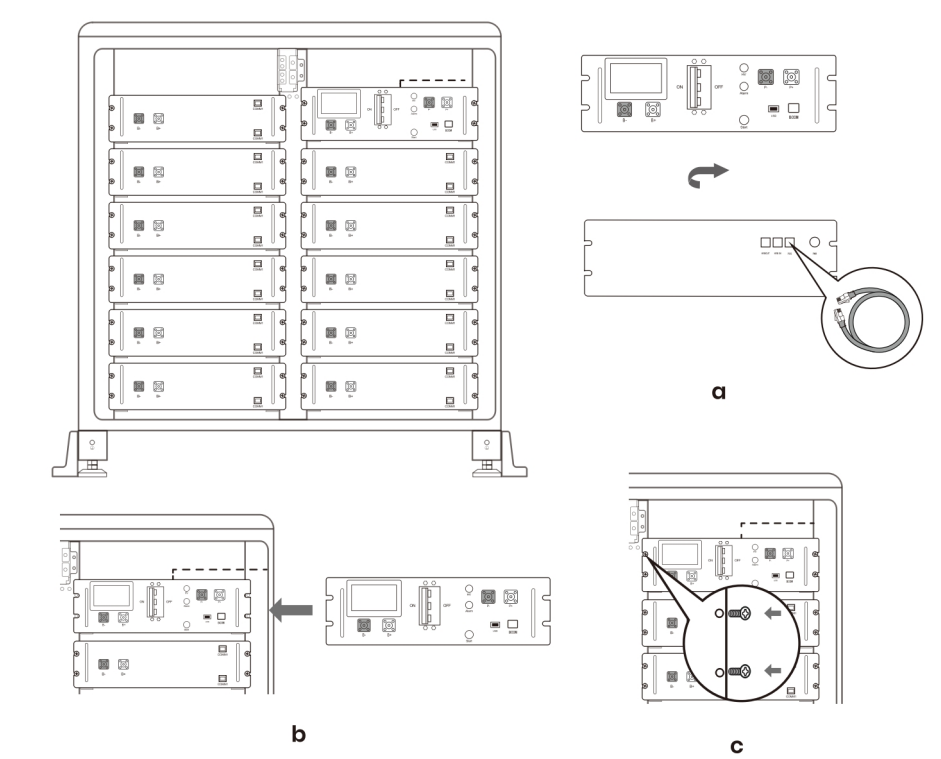
- a. Place the cabinet at the target installation position. Use a spirit level and a wrench to adjust the leveling feet.
- b. Mark drilling positions on the floor, drill holes and insert M12*80 expansion sleeves.
- c. Fasten the mounting feet to the cabinet with the supplied M8*20 bolts.
- d. Tighten the M12*80 expansion bolts to secure the cabinet.

2. Install Battery Packs



- a. Install the battery packs into the slots of the cabinet slots from bottom to top.
- b. Secure the battery packs to the slots with the M6*16 screws.

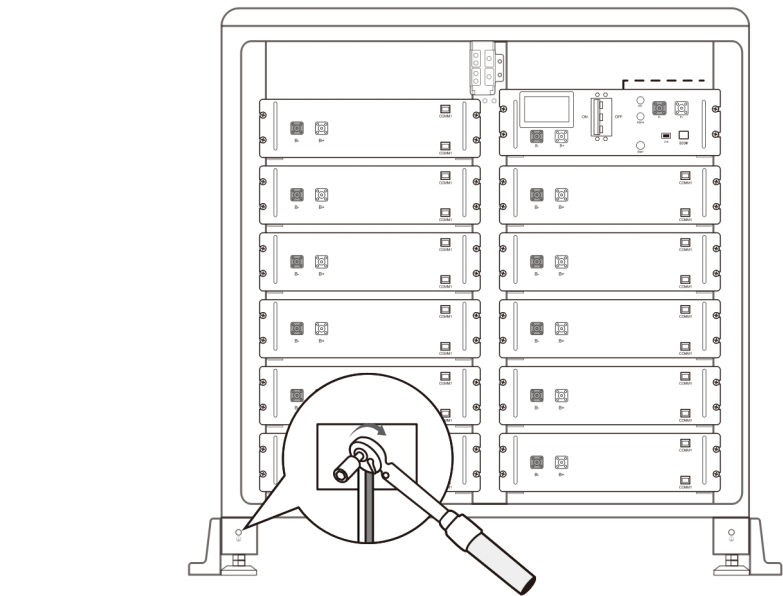
3. Install the PDU



- a. Connect the Ethernet cable to the PCS port on the rear of the PDU.
- b. Push the PDU into to topmost slot of the right cluster, and keep the connected cable on the top.
- c. Secure the PDU to the slot using the M6*16 screws.

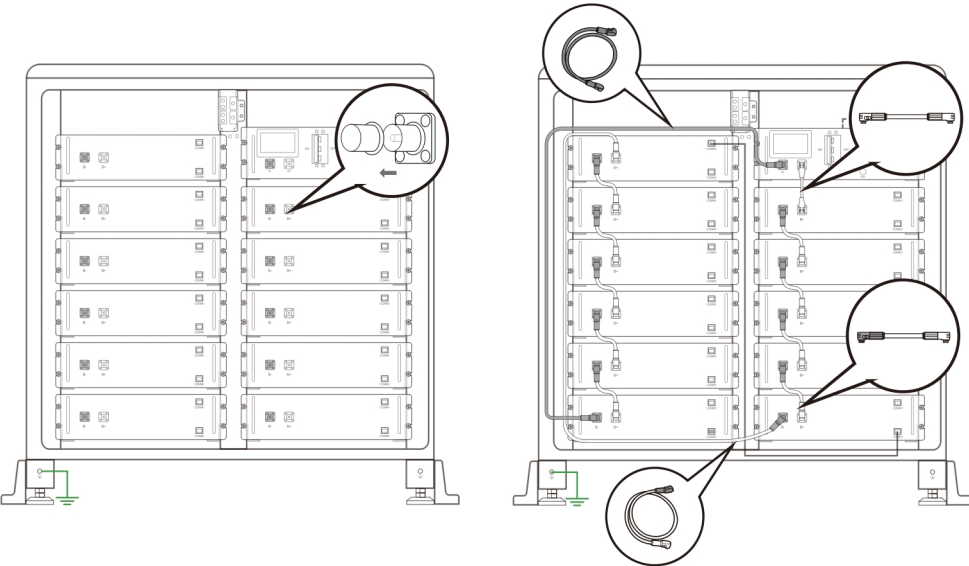
Cable Connection

1. Connect the Grounding Cable



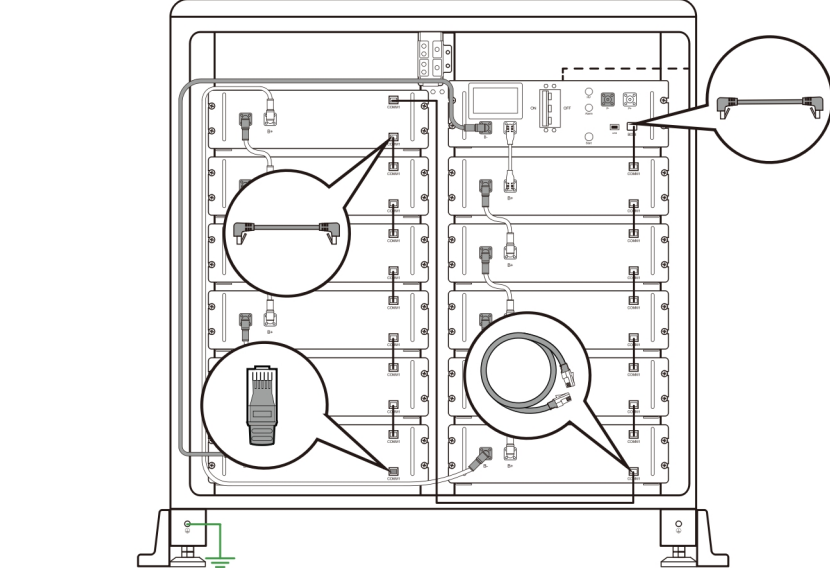
Connect the provided grounding cable to any of the PE terminals with the pre-installed screw on the cabinet.

2. Connect Power Cables



- a. Remove the terminal cover on the PDU and battery packs.
- b. Connect BMU-BMU power cables:
In single cluster: B- of the upper pack to B+ directly below
For two clusters in series: B- of the bottom pack in the right cluster to B+ of the top pack in the left cluster
- c. Connect PDU-BMU power cables:
PDU B+ to battery pack B+ directly below
PDU B- to bottom battery B- in the left cluster

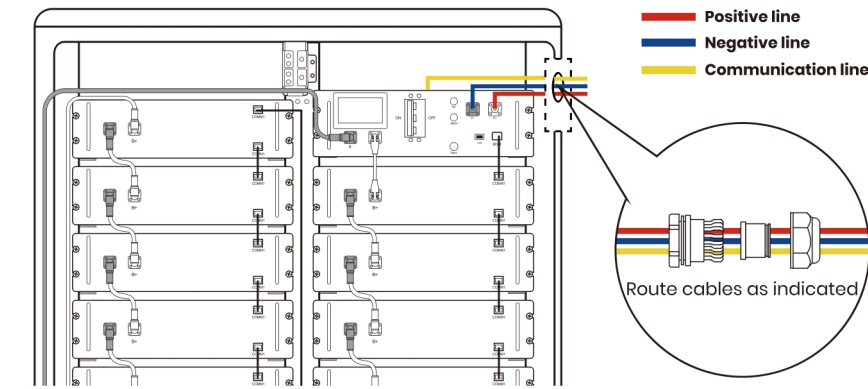
3. Connect Communication Cables



- a. Connect the PDU BCOM to the COMM1 terminal directly below using the PDU-BMU communication cable.
- b. In single cluster, connect the COMM1 and COMM2 between the battery packs with the BMU-BMU communication cables.
- c. For two clusters in series, use the BMU-BMU Ethernet cable to connect the COMM2 of the bottom pack in the right cluster to the COMM1 of the top pack in the left cluster.
- d. Insert the termination resistor into the COMM2 of the bottom pack in the left cluster.

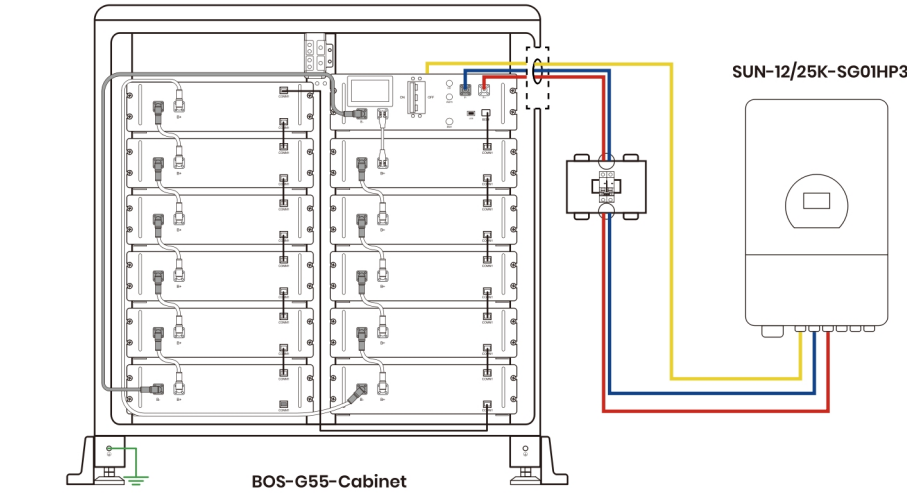
4. Connect the Battery System and Inverter

One cable gland is fitted on each cabinet side for external wiring.



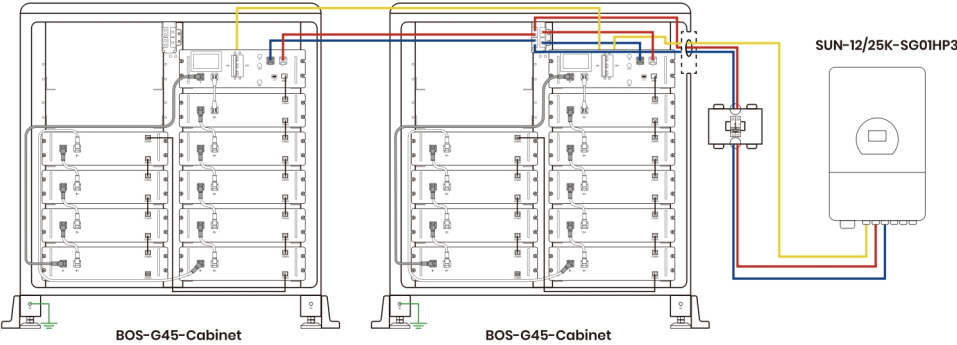
Wiring of cables between the cabinet and the SUN-12/25K-SG01HP3

A junction box and corresponding 6AWG power cables should be prepared for wiring between the battery cabinet and the SUN-12/25K-SG01HP3.
Refer to the inverter user manual for the junction box specification.



For a single battery cabinet working with the inverter:

- a. Connect the BMS terminal on the inverter to the PCS terminal on the PDU with the supplied communication cable.
- b. Connect the BAT+ and BAT- on the inverter to the junction box with 6AWG power cables (not included) and then to the P+ and P- on the PDU with the supplied PDU-BMU power cables.



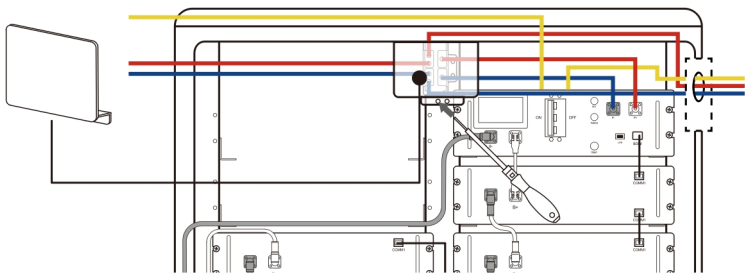
For multiple battery cabinet working with the inverter:

- a. Connect the PDU PCS terminal in the first cabinet to the BMS terminal on the inverter, and then connect the HVBOUT terminal on the PDU in the first cabinet to the HVBIN terminal

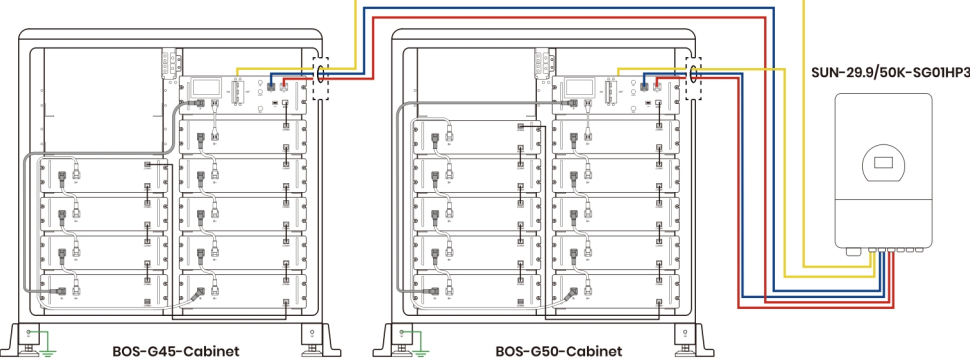
in the second cabinet.

- b. Connect the BAT+ and BAT- on the inverter to terminal block on the cabinet frame through the junction box with 6AWG power cables (not included). Connect the terminal block to the P+ and P- terminals in both cabinets with the supplied power cables. Always match positive (+) and negative (-) polarities correctly.

Install the terminal block cover with provided M5 screws if multiple cabinets are connected.



Wiring of cables between the cabinet and the SUN-29.9/50K-SG01HP3



- a. Connect the BMS terminals on the inverter respectively to the PCS terminal on the PDU in both cabinets with the supplied communication cables.
- b. Connect the BAT+ and BAT- terminals on the inverter respectively to the P+ and P- terminals on the PDU in both cabinets with the supplied PCS-PDU power cables.

Power ON/OFF

1. Power-On Procedure

- a. Close the circuit breaker in the junction box (if any).
- b. Set the circuit breaker on the PDU to the ON position, and then press the PDU Start button.
- c. Power on the inverter.

2. Power-Off Procedure

- a. Power off the inverter.
- b. Press the PDU Start button, and then set the circuit breaker to the OFF position.
- c. Open the circuit breaker in the junction box (if any).



Scan for more information

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