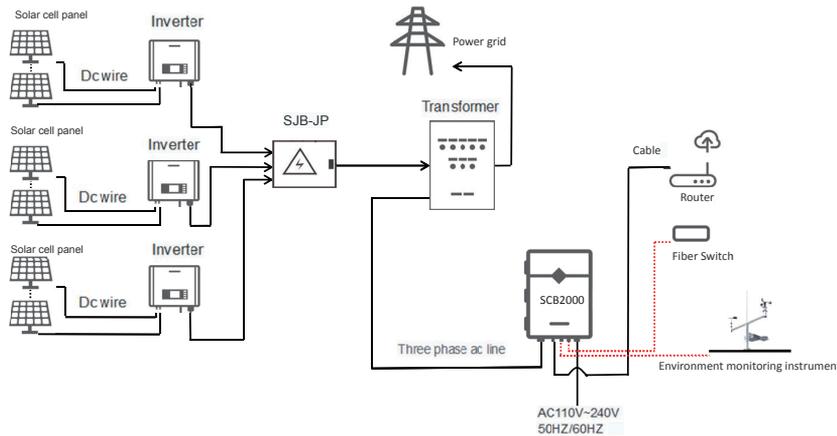
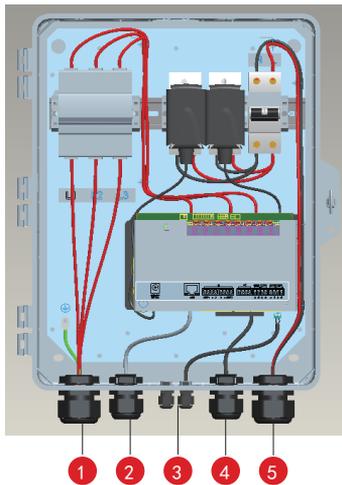


# SCB2000 Wiring Instructions

## 1. Application scene



## 2. Wiring diagram



- ❶ **Three-phase ac wire connection:** The three-phase switch inside the box is connected out through port 1, and the other end is connected to the low-voltage side bus of the transformer.
- ❷ **LAN connection:** If LAN version communication is selected, the enclosure is internally connected to the NET port and connected with connection routing and other devices from port 2.
- ❸ **RS485 connection:** If third party equipment such as environmental monitor is needed, the box is connected to COM4 port through RS485 line, and the third party equipment is extracted from port 3.
- ❹ **Optical fiber connection:** If the optical version, optical fiber communication line from the 4 port.
- ❺ **Power supply connection:** The cabinet is internally connected with 2P miniature circuit breaker and connected with LN single-phase power supply (supply voltage range AC110V~240V 50HZ/60HZ) through port 5.

## 3. Recommended cable specifications

|   | Cable                                 | Recommended Model or Specifications  | Cross-sectional Area Range of the Cable (Recommended)  |
|---|---------------------------------------|--|--|
| 1 | Three-phase AC power cable            | <ul style="list-style-type: none"> <li>● Four-core (L1, L2, L3, and functional earthing) outdoor copper armored cable</li> <li>● When the rated AC voltage on the low-voltage side of the box-type transformer is less than or equal to 500 V, the operating voltage between the three-phase AC power cable and the ground should be greater than or equal to 600 V.</li> <li>● When the rated AC voltage on the low-voltage side of the box-type transformer is greater than 500 V and less than or equal to 800 V, the operating voltage between the three-phase AC power cable and the ground should be greater than or equal to 1000 V.</li> </ul> | <ul style="list-style-type: none"> <li>● 2.4mm<sup>2</sup>~6mm<sup>2</sup> ( 4mm<sup>2</sup> )</li> <li>● 14AWG ~ 10AWG ( 12AWG )</li> </ul> |
| 2 | Peripheral network cable              | CAT 5E outdoor shielded network cable with an outer diameter less than 9 mm (0.35 in.) and internal resistance not greater than 1.5 ohms/10 m (1.5 ohms/32.81 ft), as well as a shielded RJ45 connector  | -  |
| 3 | Peripheral RS485 communications cable | A computer cable or armored shielded twisted pair that can be used outdoors  | <ul style="list-style-type: none"> <li>● 0.5mm<sup>2</sup>~1mm<sup>2</sup> ( 1mm<sup>2</sup> )</li> <li>● 20AWG ~ 18AWG ( 18AWG )</li> </ul> |
| 4 | Cabinet PE cable                      | Outdoor copper cable   | <ul style="list-style-type: none"> <li>● 6mm<sup>2</sup>~16mm<sup>2</sup> ( 16mm<sup>2</sup> )</li> <li>● 10AWG ~ 6AWG ( 6AWG )</li> </ul>   |
| 5 | Optical cable                         | Optical cable with a transmission wavelength of 1310/1550 nm   |  |