

Quick Installation Guide

PV Grid-Connected Inverter

SG125CX-P3



- Contents may be periodically updated or revised due to product development. The information in this guide is subject to change without notice. In no case shall this guide substitute for the user manual or related notes on the device.
- Make sure to read over, fully understand and strictly follow the detailed instructions of the user manual and other related regulations. Visit <http://www.sungrowpower.com/>, choose "PV Inverters" and search for the device model on the "Products" tab page to view or obtain the user manual.
- All operations can be performed only by qualified personnel, that must be trained in the installation and commissioning of the electrical system, as well as the dealing with hazards, have knowledge of the manual and of the local regulations and directives.
- Before installation, check that the package contents are intact and complete against the packing list. Contact SUNGROW or the distributor in case of any damaged or missing components.
- The cable must be intact and well insulated. Operation personnel must wear proper personal protective equipment (PPE) all the time.
- Any violation could result in personal death or injury or device damage, and will void the warranty.

Safety Disclaimer

Please follow the safety instructions related to the PV strings and the utility grid. Otherwise, SUNGROW shall not be held liable for any damage caused.

DANGER

- PV strings will produce electrical power when exposed to sunlight and can cause a lethal voltage and an electric shock.
- Only qualified personnel can perform the wiring of the PV panels.
- All electrical connections must be in accordance with local and national standards.
- Only with the permission of the utility grid, the inverter can be connected to the utility grid.
- Do not open the enclosure at any time. Unauthorized opening will void guarantee and warranty claims and in most cases terminate the operating license.
- When the enclosure lid is removed, live components can be touched which can result in death or serious injury due to electric shock.

WARNING

- All the warning labels and nameplate on the inverter body must be clearly visible and not be removed, covered or pasted.

CAUTION

- Risk of burns due to hot components!
- Do not touch any hot parts (such as heat sinks) during operation. Only the DC switch can safely be touched at any time.

NOTICE

- Only qualified personnel can perform the country setting.
- Unauthorized alteration of the country setting may cause a breach of the type-certificate marking.

Security Declaration

- To learn more about the product network security vulnerability response process and vulnerability disclosure, please scan the QR code below or visit the following website:
<https://en.sungrowpower.com/security-vulnerability-management>



Signs on the Product

 Disconnect the inverter from all the external power sources before service!	 There is a danger from a hot surface that may exceed 60°C.
 Danger to life due to high voltages! Only qualified personnel can open and service the inverter.	 Check the user manual before service!
  5 min Do not touch live parts until 5 minutes after disconnection from the power sources.	 Do not dispose of the inverter together with household waste.
 TÜV mark of conformity.	 CE mark of conformity. EU/EEA Importer.
 RCM mark of conformity.	 Additional grounding point.
 RoHS labeling The product complies with the requirements of the applicable EU directives.	 UKCA mark of conformity.
 The inverter does not have a transformer.	 CMim mark of conformity.

Manufacturer : Sungrow Power Supply Co., Ltd.

No 1699, Xiyou Road, Hefei 230088, P.R. China

For EU only

EU/EEA Importer: Sungrow Deutschland GmbH

Balanstraße 59, 81541 München, Germany

EU Declaration of Conformity

within the scope of the EU directives

- Low Voltage Directive 2014/35/EU (LVD)
- Electromagnetic compatibility 2014/30/EU (EMC)
- Restriction of the use of certain hazardous substances 2011/65/EU and 2015/863/EU (RoHS)
- The radio equipment directive 2014/53/EU (RED)

The manufacturer Sungrow Power Supply Co. Ltd, China hereby confirms that the product SG125CX-P3 complies with the essential requirements and other relevant provisions of Directive 2014/35/EU (LVD), 2014/30/EU (EMC), 2011/65/EU, 2015/863/EU (RoHS) and 2014/53/EU (RED).

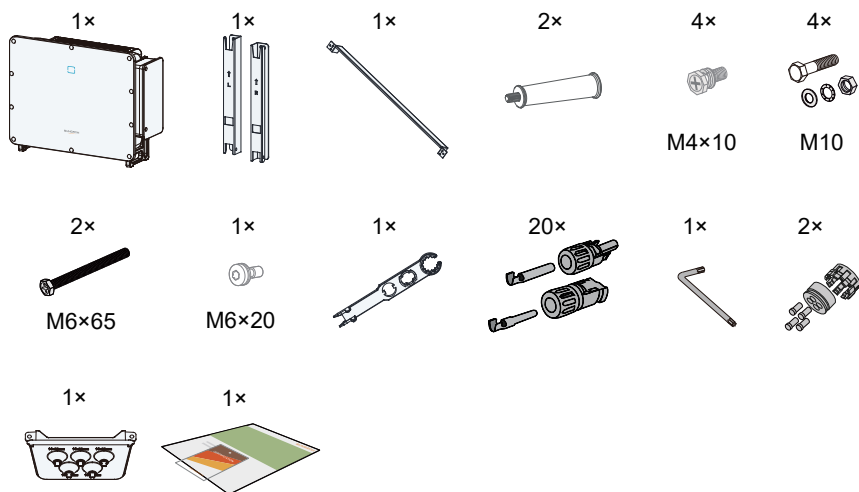
Radio technology BLE5.0

Radio spectrum 2.4 GHz

Maximum transmission power 10 mW

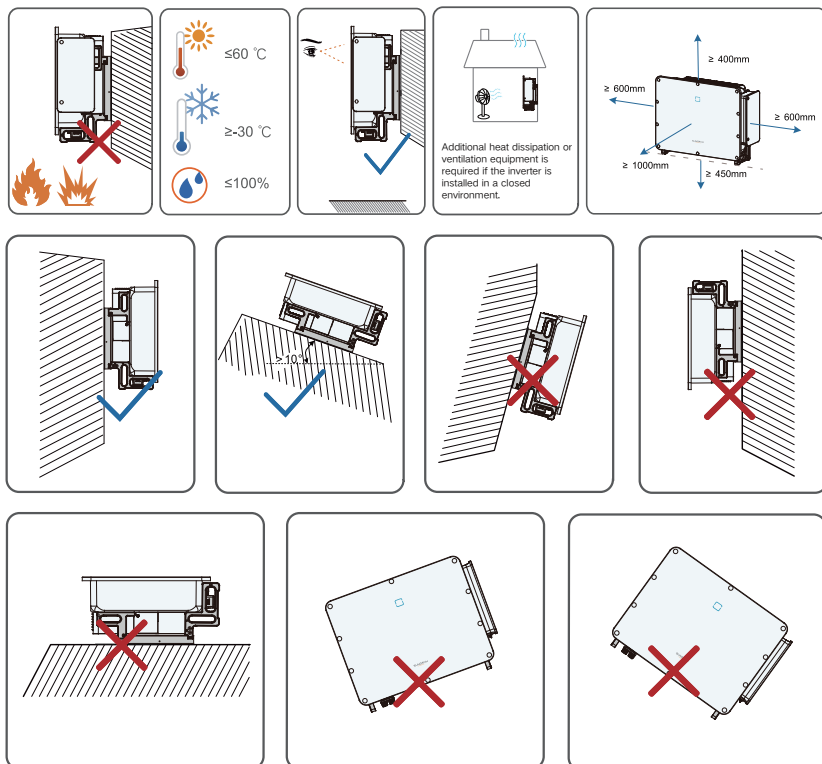
*Technical parameters listed above apply to EU countries only

Scope of Delivery

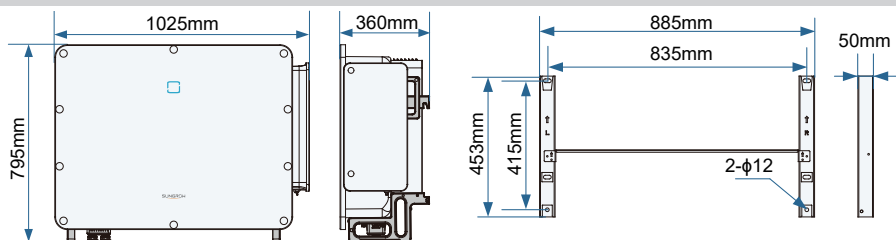


The images shown here are for reference. The actual product and quantity are based on delivery.

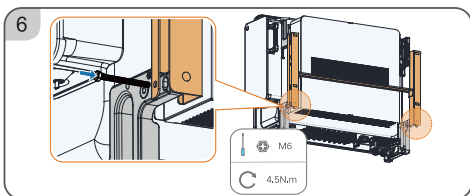
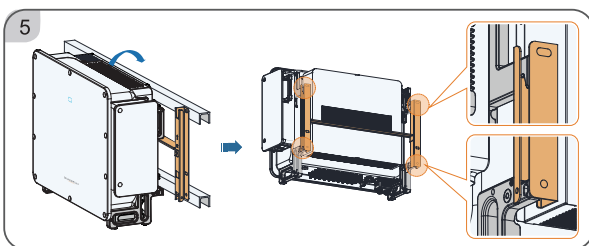
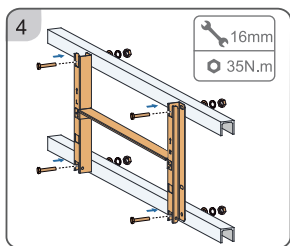
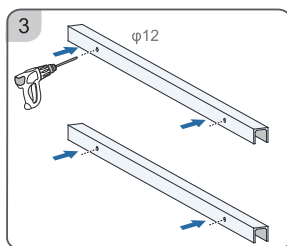
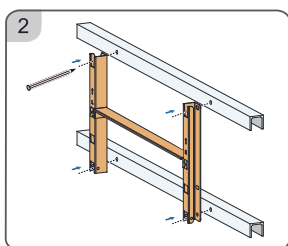
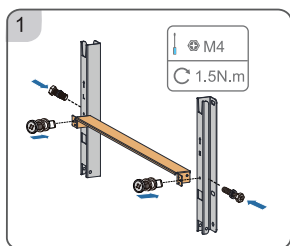
Mounting location



Dimension

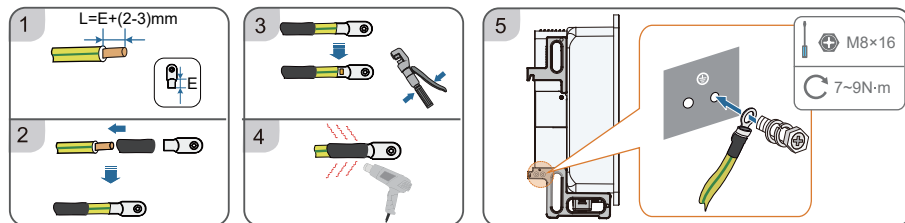


Mounting



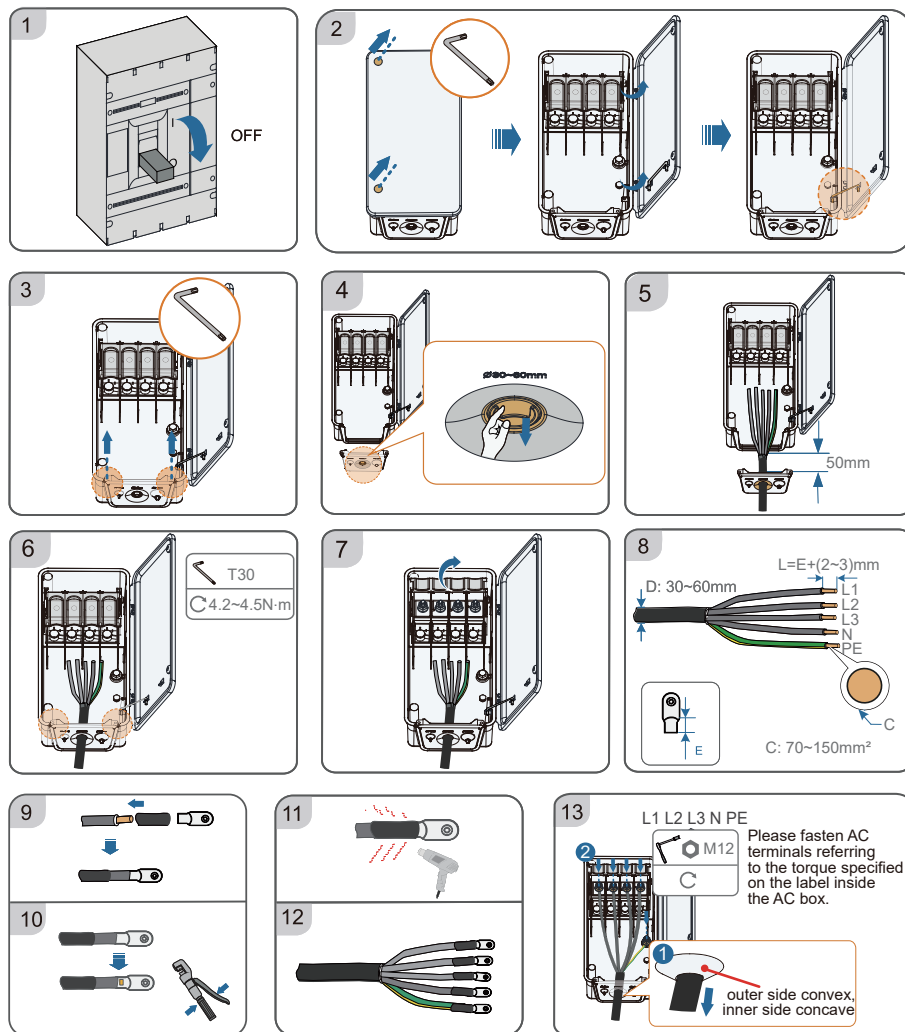
It is necessary to fix the left and right sides of the inverter with screws. Otherwise, the inverter may be unstable.

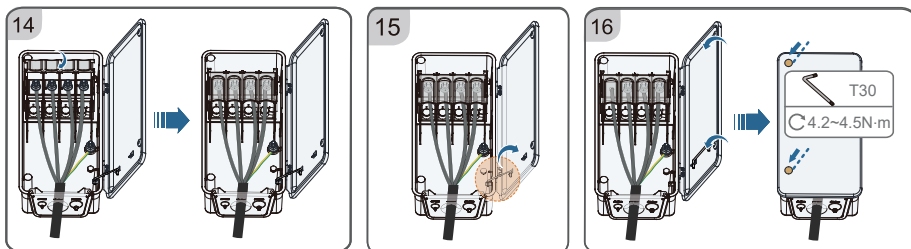
PE Connection



AC Connection (For a Multi-core Cable)

The description is given by using five-core copper cable as an example. For more reference information on cable specifications, please refer to the product user manual.



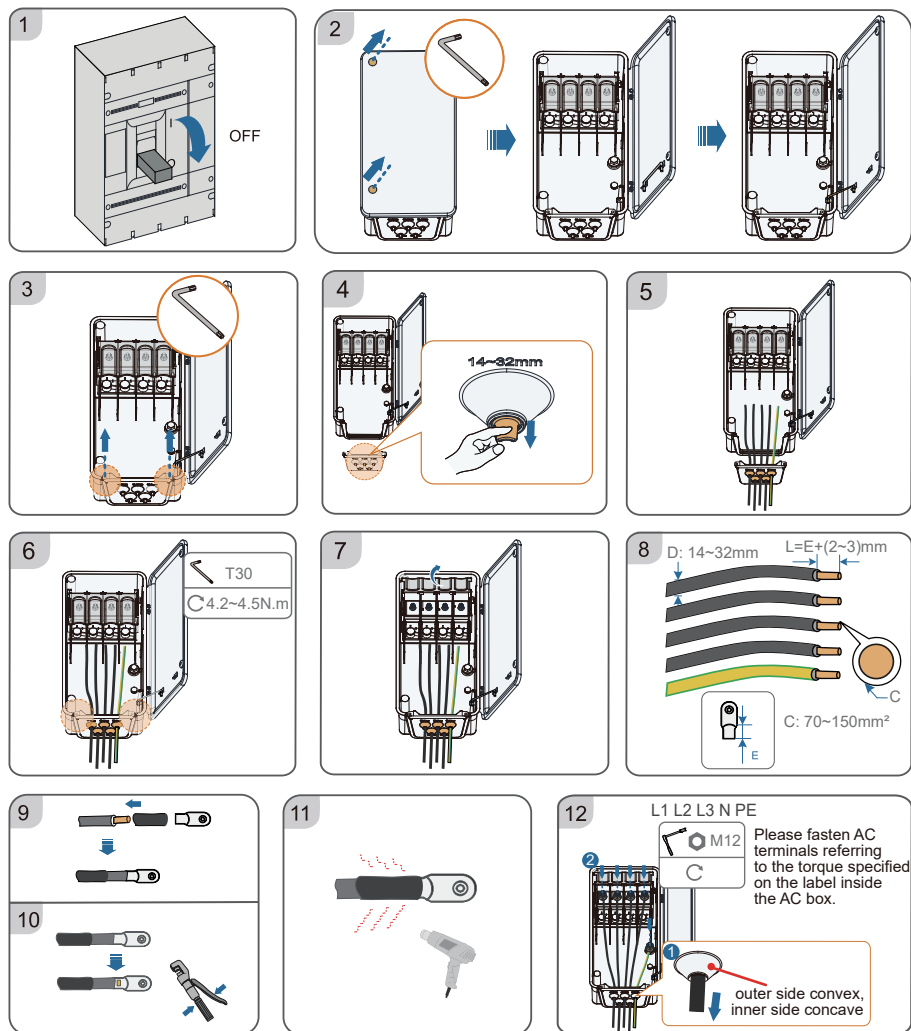


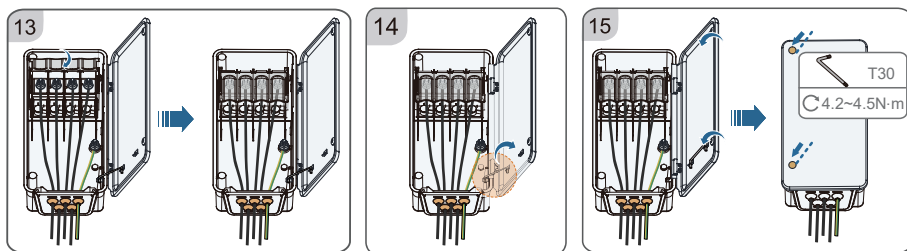
AC Connection (For a single-core cable)

Inverters for Australia and New Zealand are equipped with the five-core sealing plate by default.

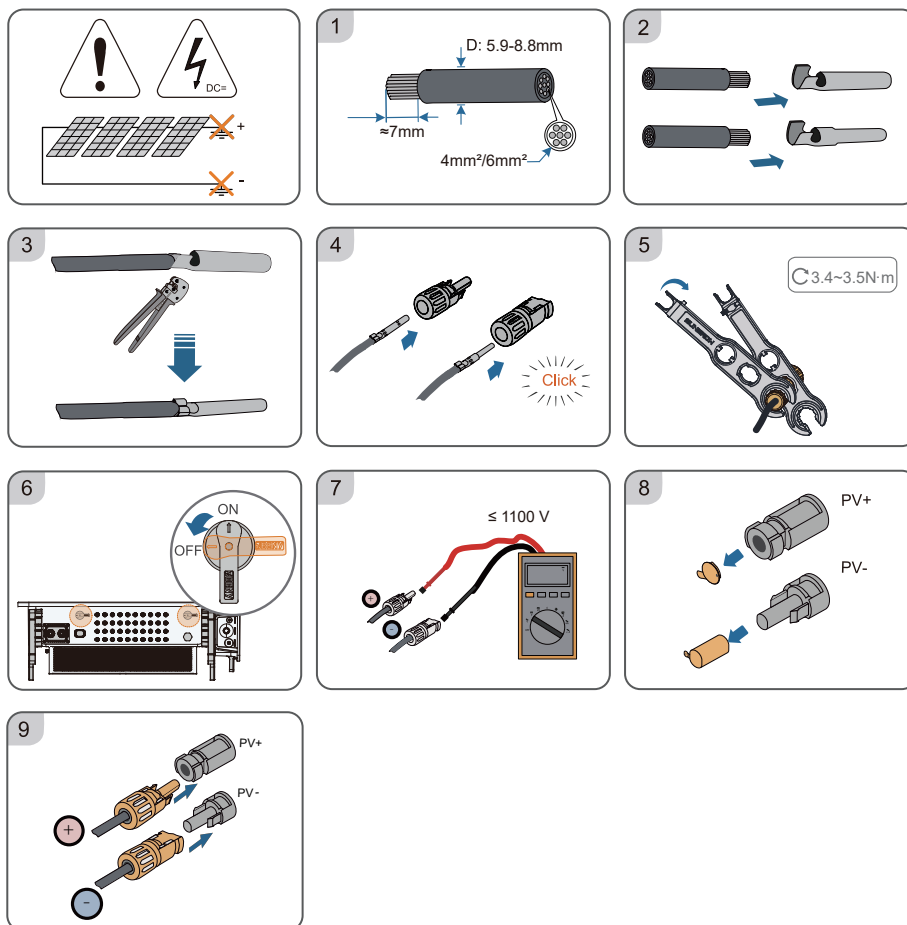
Inverters for Brazil are equipped with the three-core sealing plate by default, while the five-core sealing plate is included in the shipping accessories.

The description is given by using five-core copper cable as an example. For more reference information on cable specifications, please refer to the product user manual.

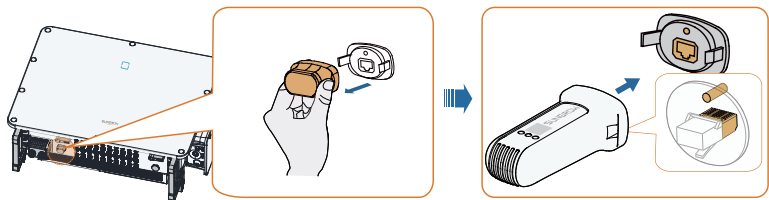




DC Connection



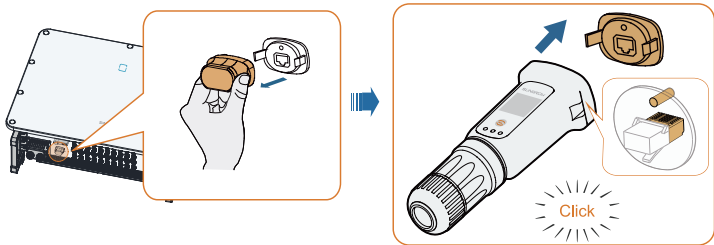
Wireless Communication Module Connection(optional)



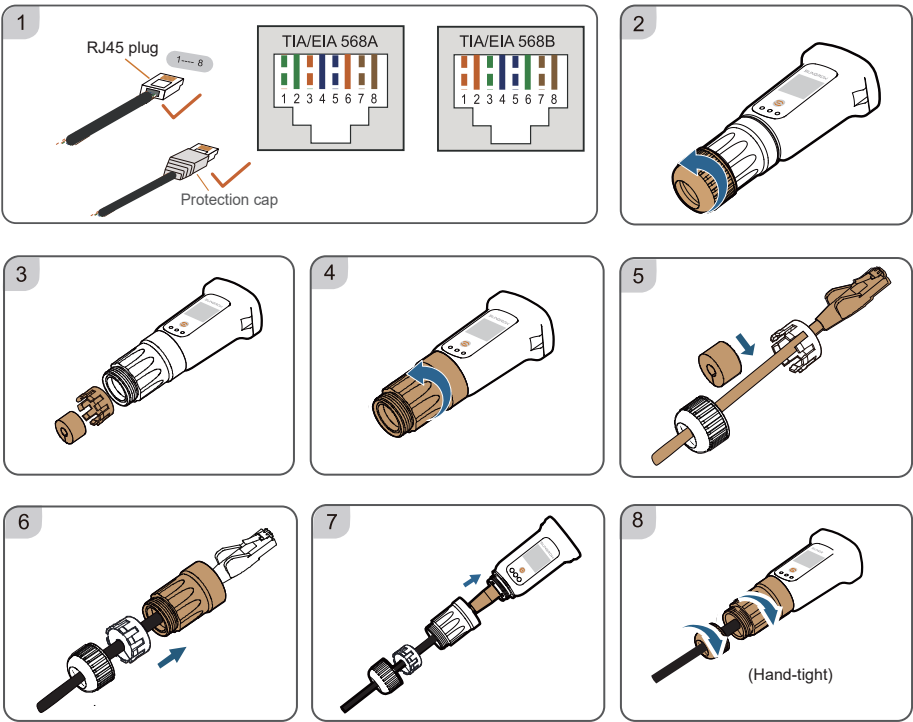
The image shown here is for reference only. The actual product you receive may differ.

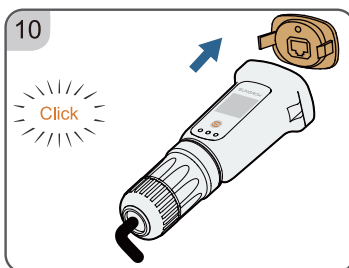
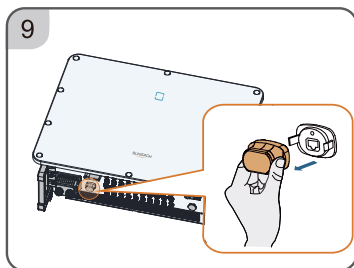
WiNet-S2 Connection (optional)

• Installation with WLAN communication

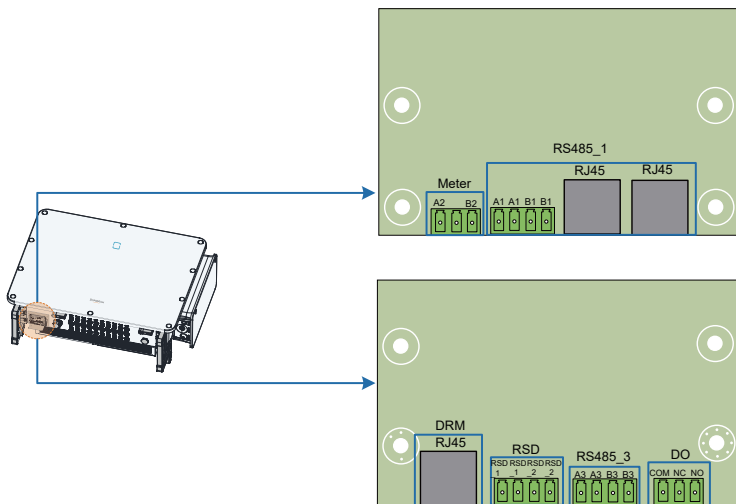


• Installation with Ethernet communication

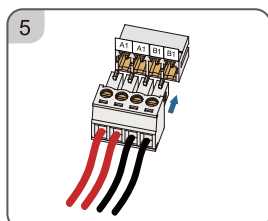
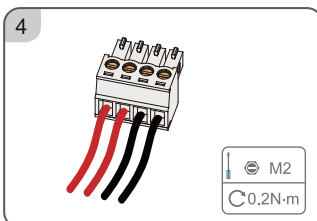
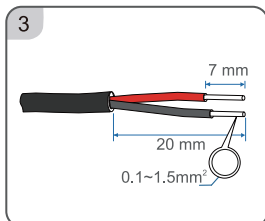
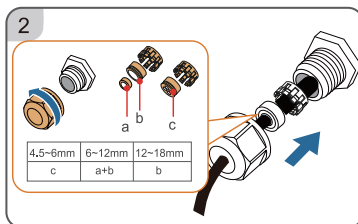
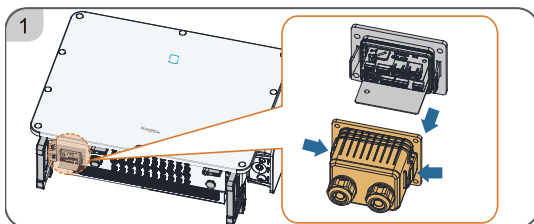


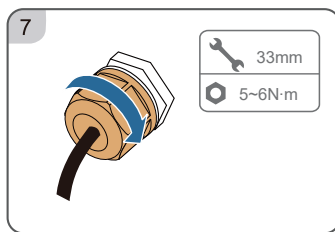
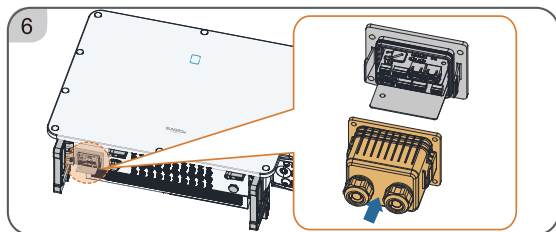


RS485 Communication Connection

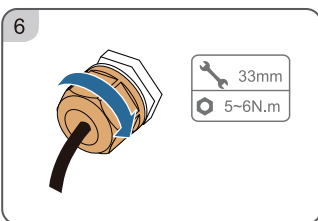
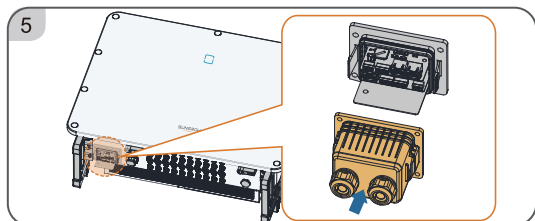
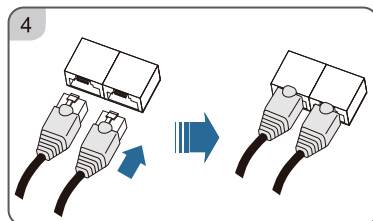
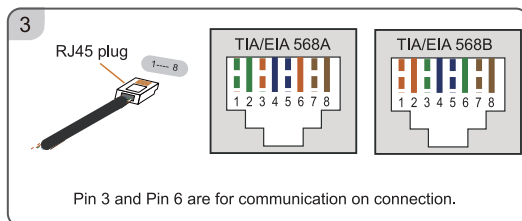
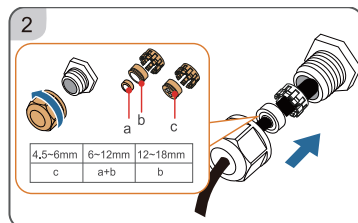
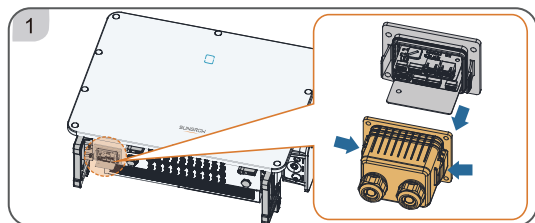


Terminal Block

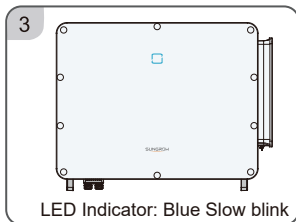
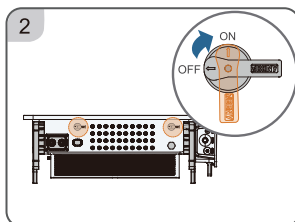
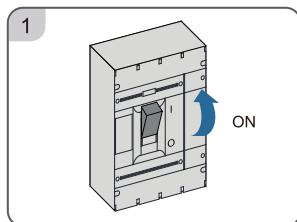




• RJ45



Power on

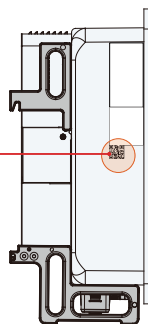
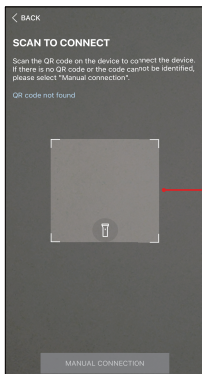
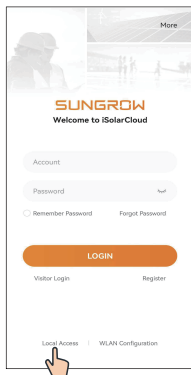


4

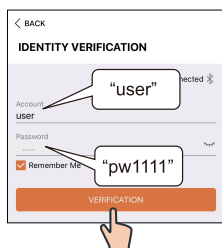


iSolarCloud App

5



6



Scan the QR code to access the iSolarCloud App User Manual and complete software commissioning by referring to the Device Commissioning section.

LED Indicator

LED color	State	Definition
	ON	The device is connected to the grid and operating normally.
	Fast blink (Period: 0.2s)	The Bluetooth communication is connected and there is data communication. No system fault occurs.
	Slow blink (Period: 2s)	The device is in standby or startup state (not feeding power into the grid).
	Slow blink once, fast blink three times	The inverter is performing PID recovery.

	ON	A fault occurs and the device cannot connect to the grid.
	Blink	The Bluetooth connection is established, data communication in process, and a system fault occurs.
	OFF	Both the AC and DC sides are powered down.



More information in the QR code or
at <http://support.sungrowpower.com/>

SUNGROW

Sungrow Power Supply Co., Ltd.

www.sungrowpower.com



M 0 H 0 1 3 3 8 0 0 - 6

QIEN M0H01338