

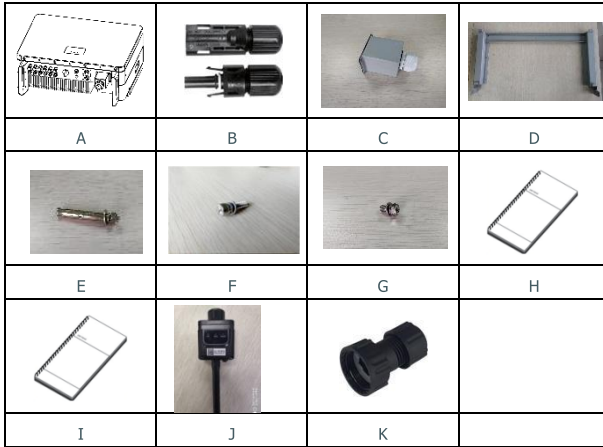
Quick Install Guide

EA20KTSI/ EA25KTSI/ EA30KTSI

Attention: Only trained electrically qualified persons are permitted to do electrical operation on this product!

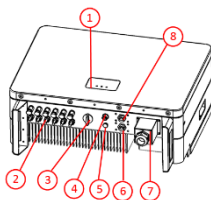
Step 1: Packing list and Inspection

► Check if the packaging is intact and the accessories are complete.



A	Grid-Connected PV Inverter	1pcs
B	PV input terminal terminal	6pairs(30kW) 5pairs(25kW) 4pairs(20kW)
C	Ac output terminal guard	1pcs
D	Wall mounting bracket	1pcs
E	Expansion screw	5pcs
F	Hexagon socket head cap screws	2pcs
G	Outer hex-cross screw with spring and plain	5pcs
H	User Manual	1pcs
I	Quick install guide	1pcs
J	WIFI,GPRS data acquisition stick or Ethernet communication module(Optional)	1pcs
K	Waterproof terminal(optional)	2pcs

► Check if individual machine modules are intact .



NO.	Description	Remarks
1	LED display panel	To display the inverter running state / communication status
2	DC input terminals	To connect inverter to PV modules
3	DC switch	To directly control DC input On / Off
4	Communication terminals	To connect Wi-Fi or other communication module
5	Ventilation valve	To prevent from condensing and fogging, and balance differential pressure between inside and outside the cabinet
6	DRM communication	Interface of demand response modes for Australia grid dispatching
7	AC output terminals	To feed the inverter output energy into the grid
8	Ammeter communication and digital input	Input interface for electric meter communication and external digital input

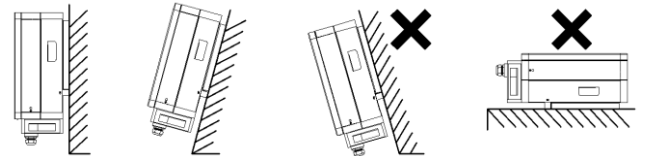
Step 2: Machine Installation

► Choose a well-ventilated, no direct sunlight, no rain and snow installation

location. It is recommended to be installed in the place such as indoor garage or loft.

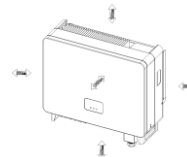


► Select a wall with sufficient load-bearing capacity and install it at the specified angle.



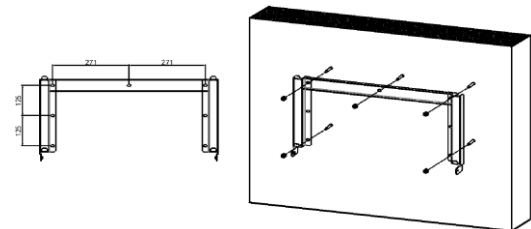
Attention: Install the inverter in the vertical direction is recommended, with a max.15 degrees backwards!

► Leaving enough space around the inverter to ensure proper heat dissipation.



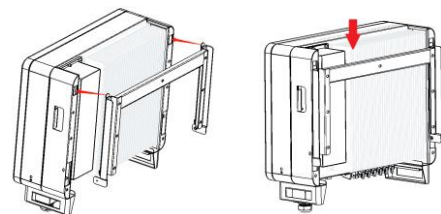
Reserved space above	500mm
Reserved space below	500mm
Left and right reserved space	300mm
Reserved space in front	1000mm

► Position and drill the hole on the wall then inserting the expansion screw in it, and fixing the mounting bracket on the wall.

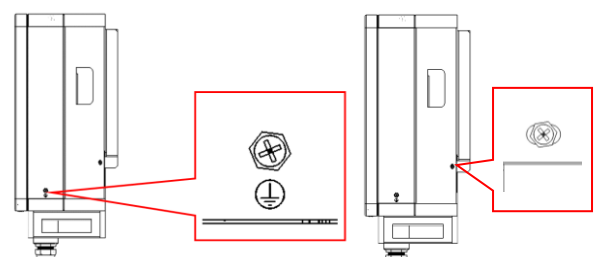


Horizontal distance	271*2mm
Vertical distance	125*2mm
Drilling diameter	8mm
Drilling Depth	70mm

► Gently hang the inverter on the mounting bracket and note that there are two hooks on each side of the wall mounting bracket.



► Use the supplied socket head cap screw to lock the inverter and the mounting bracket.



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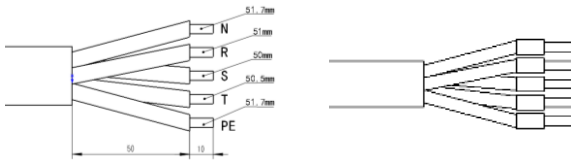
Step 3: AC Side Wiring

Attention: Before wiring, make sure the circuit breaker on the AC side is disconnected until the PV system fully installed!

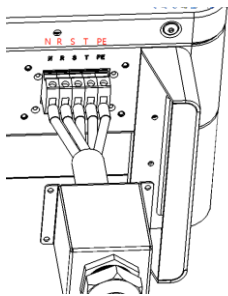
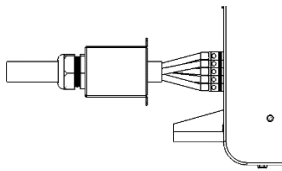
Attention: If the user adds a residual current detector to the AC side, it is recommended a 300mA type B residual current detector!

It is recommended to use 6mm² multi-strand copper cable for AC cable.

- ▶ Strip each strand of wire with an insulation layer of approximately 10mm and crimp the tubular pre-insulated terminals.

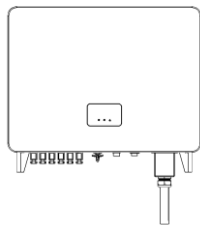


- ▶ Pass the AC cable through the gland and housing. Insert the AC cable into the terminals accordingly.



R	Live-A
S	Live-B
T	Live-C
N	Neutral
PE	Earth

- ▶ Tighten the screws on each port and confirm that each cable is tightly connected to the port. Combine the shell and the AC terminal of inverter with the combination screws M4 × 10.



Step 4: DC Side Wiring

Attention: Before wiring, make sure the inverter DC switch is off, until the entire PV system installed!

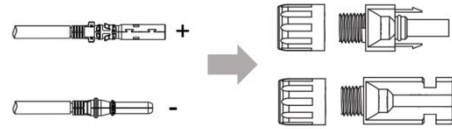
Attention: High DC voltage will be generated when the solar panels are sunlit. Please be careful to take appropriate protective measures!

It is recommended to use 4mm² PV dedicated DC cables.

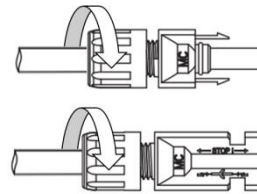
- ▶ Strip the insulation layer with a length of 8 mm.



- ▶ Crimp the DC cable to the corresponding polarity of the die with a professional crimping tool. Make sure that the die is firmly crimped, then insert the DC cable through the gland and insert it into the plastic housing of the corresponding polarity DC connector until hear a "click" sound.



- ▶ Tighten the gland at the end of DC connector to ensure its waterproof performance well.



Attention:

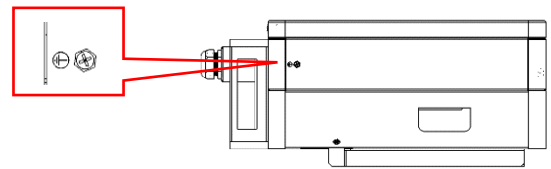
Use the voltmeter with DC voltage range over 1000V to check whether the polarity of PV array cable is consistent with inverter's DC input terminal. And confirm that the open circuit voltage does not exceed specification. When the ambient temperature is higher than 10°C, the open circuit voltage of the PV array cannot exceed 90% of the maximum DC voltage of the inverter. Otherwise, the PV array voltage may exceed the maximum input voltage of the inverter when in low temperature, and causes inverter damages!

- ▶ Insert the DC connector into the corresponding polarity DC input terminal until hear a "click" sound.

Step 5: Secondary Protection Ground Connection

- ▶ A protective grounding hole is right at the side of the inverter chassis. Users must ground the inverter through the grounding hole and fasten it with supplied Outer hex-cross screw.

Attention: The wiring of AC side PE terminal cannot be replaced by the secondary protection, so make sure that both are reliably grounded!



Step 6: Communication Connection

- ▶ Insert the WIFI, GPRS data acquisition stick or Ethernet communication module into the COM1 interface then tighten the fixing nut.
- ▶ Plug the RJ45 crystal terminal of the meter communication or digital input into the COM2 interface. For the specific meter wiring, please refer to the User Manual.
- ▶ The Australian version inverter supports the DRM function. Plug the RJ45 crystal terminal of DRM communication into the COM3. For the specific wiring method, please refer to chapter 6 in the User Manual.

Step 7: Start the Machine

- ▶ Check that all parts of the PV system are installed correctly and firmly.
- ▶ Close the AC side circuit breaker firstly, then close the DC switch. When the output voltage of the PV module reaches the startup voltage, the inverter will perform self-test for more than one minute. After the self-test passed, the machine will automatically start to run on the grid. The green light on the glass panel is always on while the inverter is running normally.

Note: Please refer to the User Manual for the matters need attention.