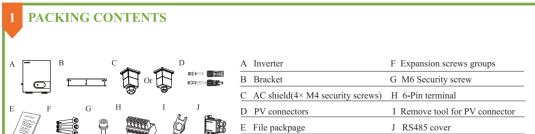
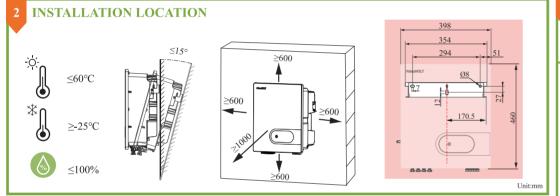
PrimeVOLT

QUICK INSTALLATION GUIDE

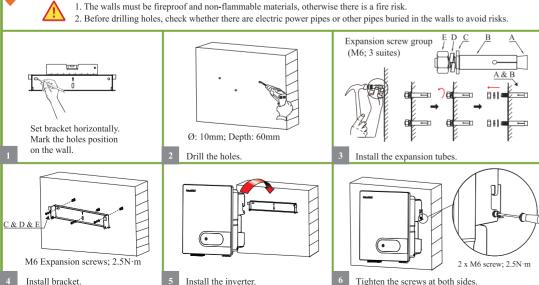
Three-phase Grid-tied PV String Inverter 5K-25K







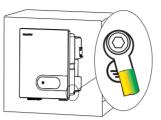




GROUNDING



- 1. According to regulations, the secondary protection grounding can't replace the PE terminal connection of the AC cable. Ensure that both are grounded reliably.
- 2. Ensure that inverter and all cables to be installed are completely powered off during whole installation and connection. Otherwise, fatal injury can occur due to the high voltage.



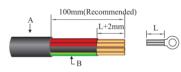
Items	Remark		
Screw	M6 X 12mm; 3N·m		
OT Terminal	OT6-6 (5K-15K); OT16-6 (17K-25K)		
Yellow green lines	$\begin{array}{ll} S(\mbox{Yellow green lines}) & \geq & S(\mbox{PE line of AC cable}) \\ S \mbox{ is the cross-sectional area}. \end{array}$		

Ensure that the grounding resistance is less than 10Ω .

AC CONNECTION

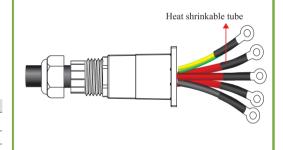


Before connecting the AC terminal, ensure that both the AC terminal and the DC terminal are powered OFF and the DC switch is OFF. Otherwise there is a risk of high voltage shock.

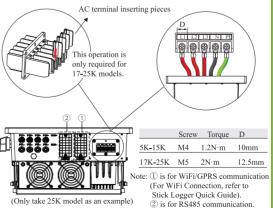


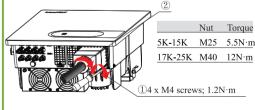
It is recommended to use outdoor dedicated cables with multiple copper cores.

No.	Name	Model	5K-15K	17K-20K	22K-25K
A	Wire outer diameter (mm)		11-18	24-32	24-32
В	Cross-sectional	Range	4-6	6-16	10-16
	area (mm²) Reco	mmended	6	10	16



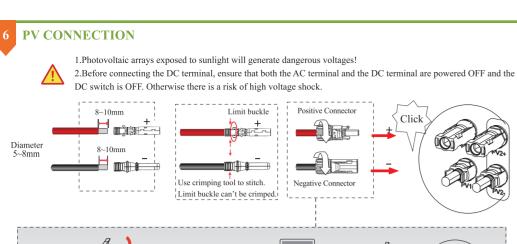
Wires making. Wires threading and pressing.

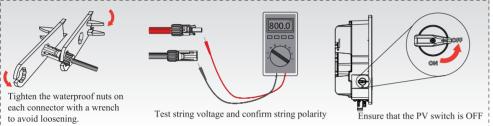




- ①Align the AC cover with the 4 holes and tighten it firmly with 4 x M4 screws.
- ②Fasten the nut (waterproof cap).

Lock the AC cable to the corresponding AC terminals.





Note: DC cable should be dedicated PV cable (suggest using 4~6mm² PV1-F cable).

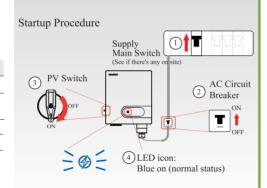
STARTUP / SHUTDOWN PROCEDURE

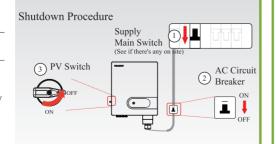
Inspection

No. Items

- 1 The inverter is firmly installed.
- 2 There is enough heat dissipation space, no external objects or parts left on the inverter.
- 3 It is convenient for operation and maintenance.
- 4 The wiring of the system is correct and firm.
- 5 Check whether the DC and AC connections are correct with a multimeter, and whether there is a short circuit, break, or wrong connection.
- 6 Check whether the waterproof nuts of each part are tightened.
- 7 The vacant ports have been sealed. All gaps at the cable inlet and outlet holes have been plugged with fireproof/waterproof materials, such as fireproof mud.
- 8 All safety labels and warning labels on the inverter are complete and without occlusion or alteration.

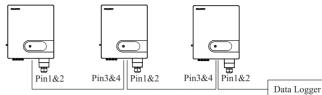
After the inverter is powered off, the remaining electricity and heat may still cause electric shock and body burns. If need to disconnect the inverter cables, please wait at least 10 minutes before touching these parts of inverter.



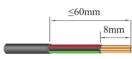


7 RS485 CONNECTION

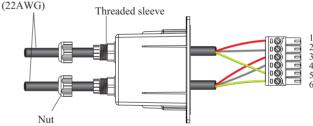
Note: Please set the Modbus address for RS485 communication after the following four steps. Refer to User Manual to get more details.



RS485 communication mode with multiple inverters

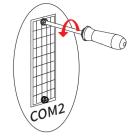


RS485 Communication cable

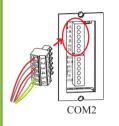


Connect the differential positive and negative signal wires of the first RS485 cable from the data logger to Pin1 and Pin2 of the 6-Pin terminal respectively. If there is more than one inverter, connect Pin3 and Pin4 to Pin1 and Pin2 of another inverter.

Wires making, threading and wiring.



Loosen the screws and remove the cover plate.



PIII	mverter
1	A
2	В
3	A
4	В
5	PE
6	PE
1	DO1
2	ALM
3	EXT SIG
4	DI2
5	DI1
6	GND

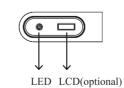
Din Invertor

Insert the 6-Pin terminal into the RS485 communication port.



Install the RS485 cover.

9 DISPLAY



LED status Red/green/blue light up in turn		Explanation 1. Inverter firmware updating 2. Initial status of power-on		
on	Normal status			
Green	on	Power limited status		
Red	blinks slowly (1s/time)	Output side fault		
	blinks fast (0.25s/time)	Input side fault		
	on	Inverter internal fault		

As the technology is constantly updated and improved, the illustrations in this document are for reference only. Contents including illustrations in this document are subject to change without notice.