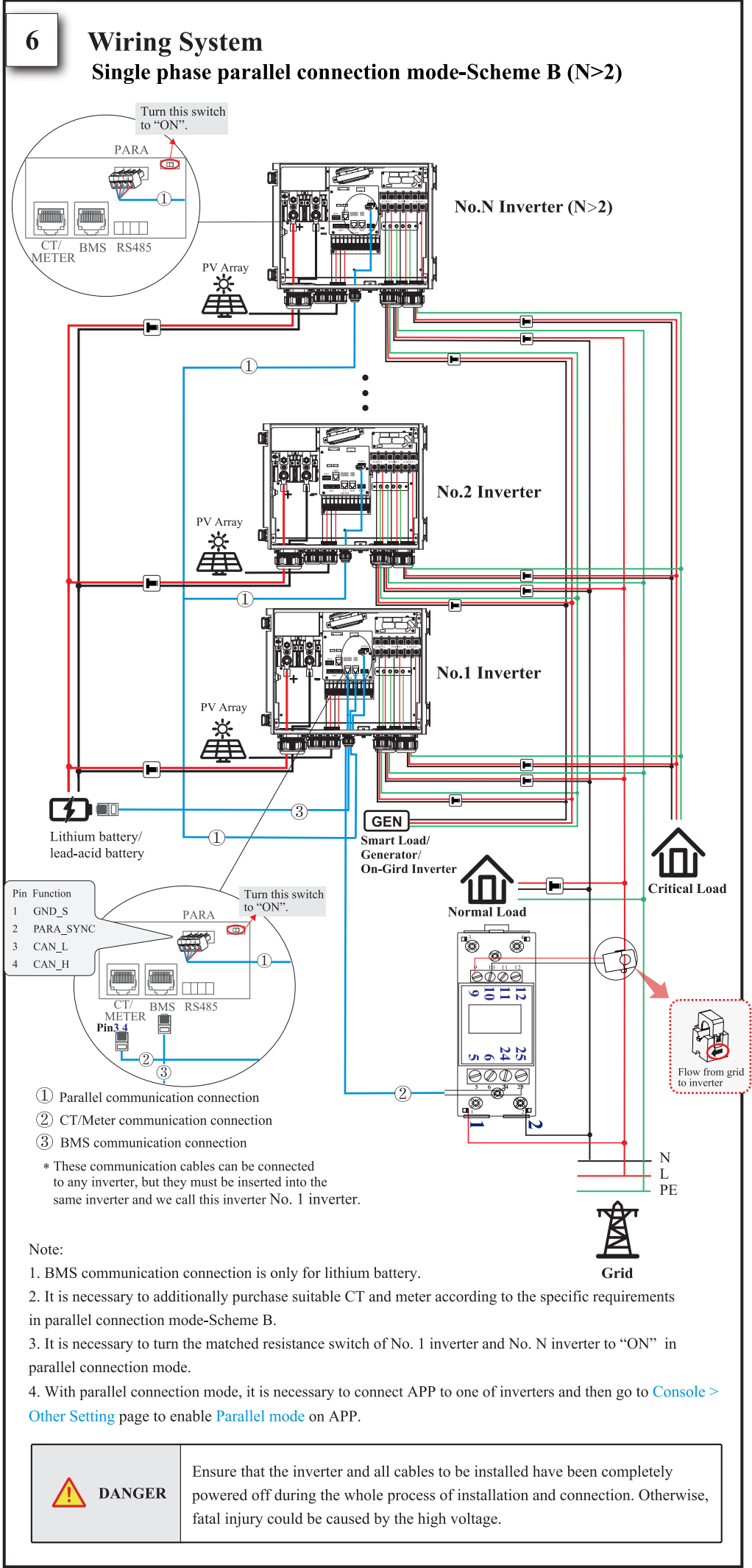
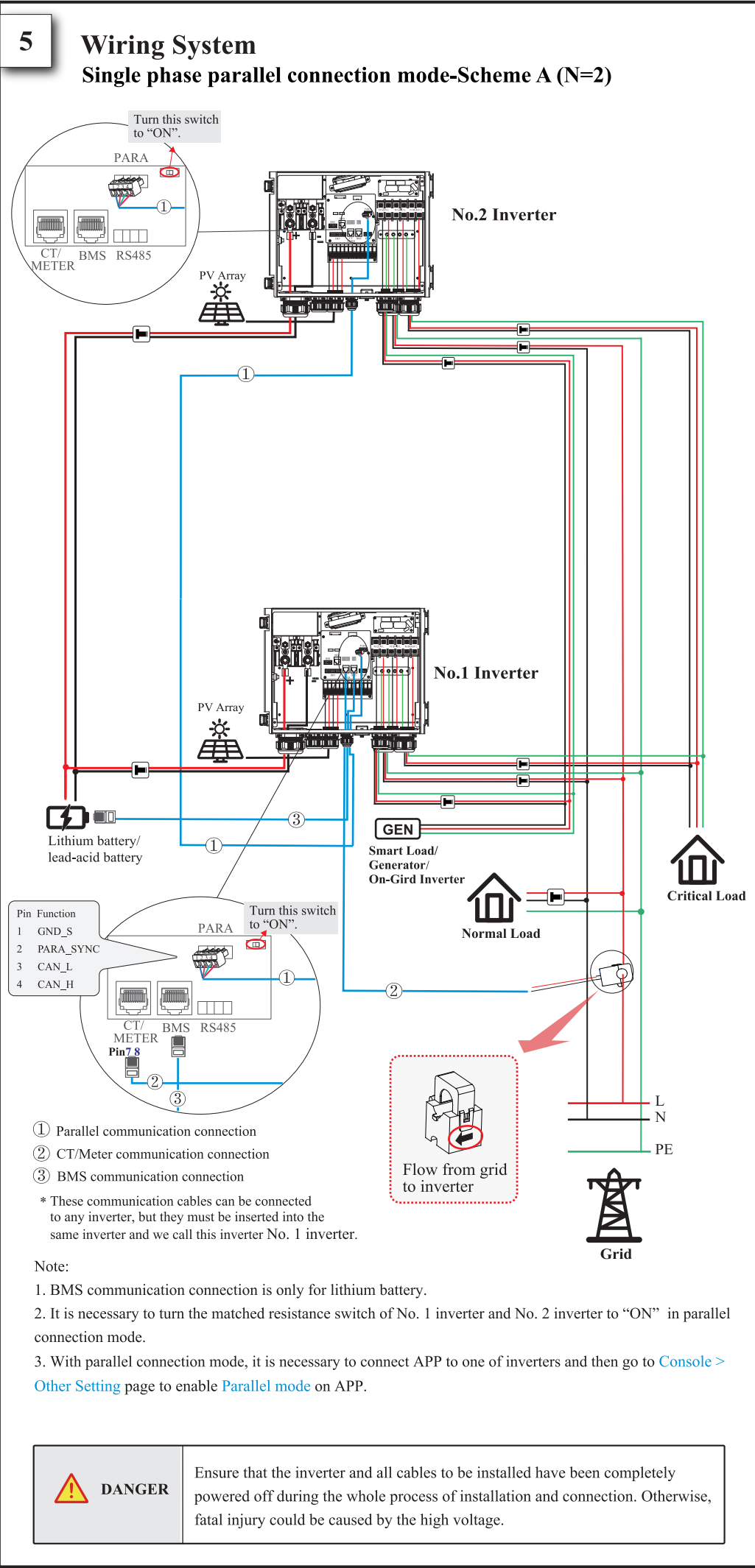
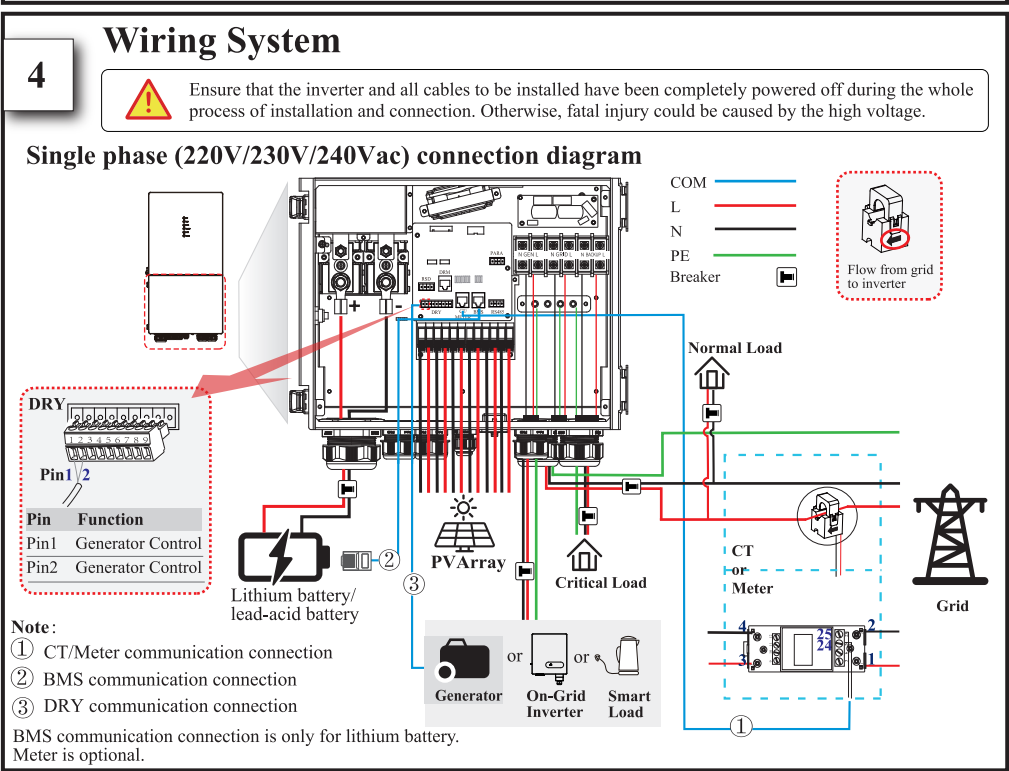
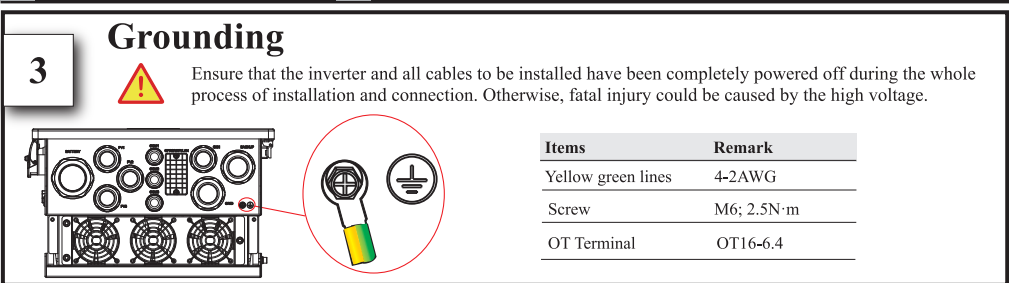
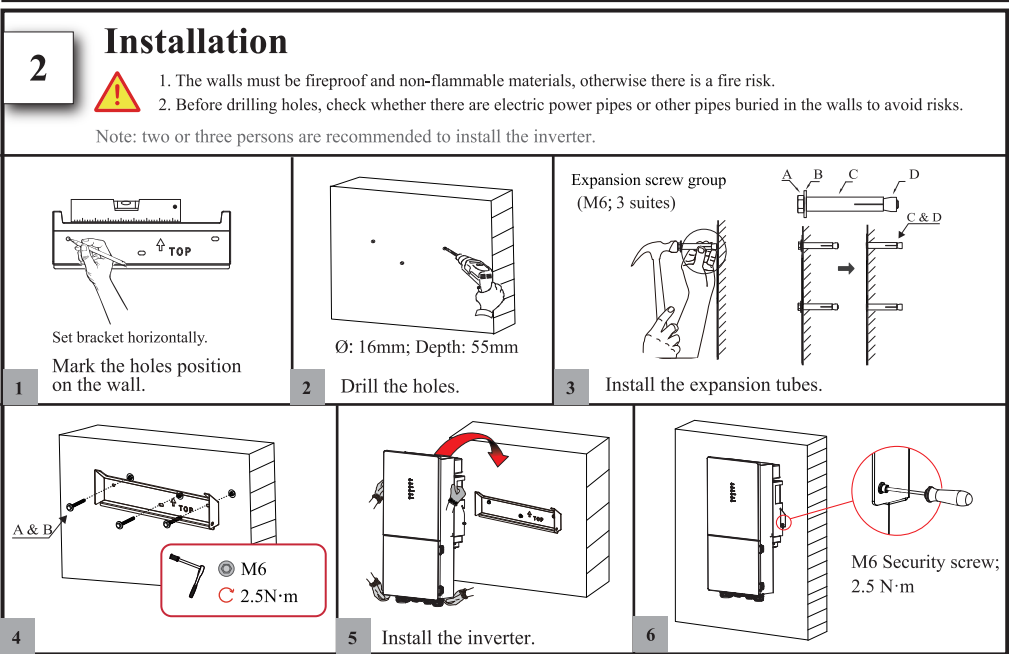
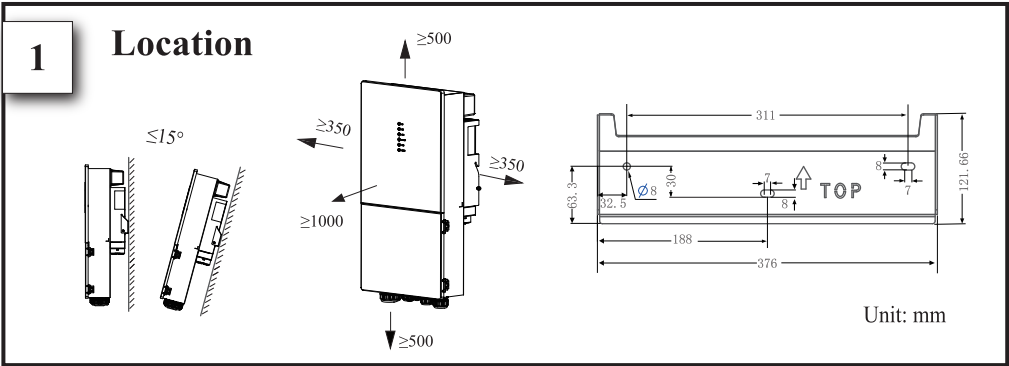
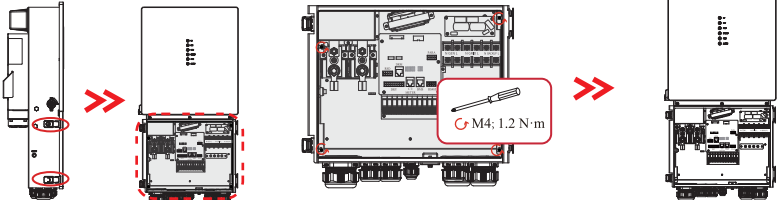


QUICK INSTALLATION GUIDE
ESS INVERTER 8/10K EU




7

Removing Insulation Piece



8

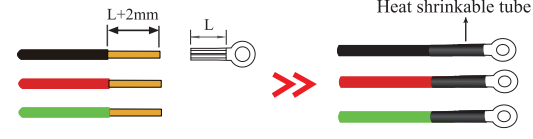
GRID/BACKUP/GEN Connection

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

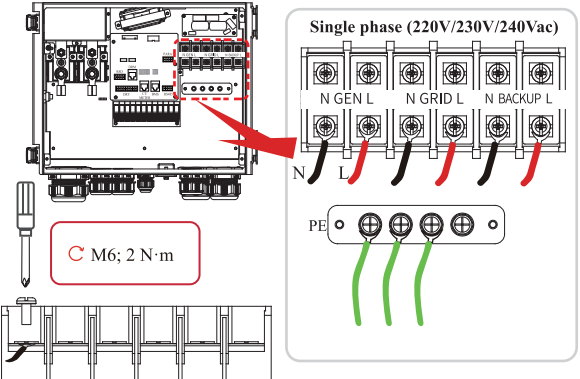
It is recommended to use outdoor dedicated cables.

AC Cable	Wire Size	OT Terminal
GEN	6-4AWG	OT16-6.4
GRID	4-2AWG	
BACKUP	4-2AWG	

1 Wires making.




2 Wires threading.



Single phase (220V/230V/240Vac)

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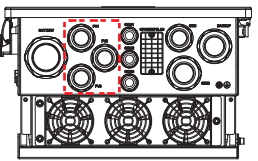
PV Connection

 1. Photovoltaic arrays exposed to sunlight will generate dangerous voltages!
2. Before connecting the PV terminal, ensure that both the AC terminal and the DC terminal are powered off and the PV switch is OFF. Otherwise there is a risk of high voltage shock.

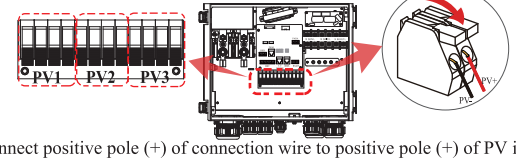
10-8AWG 15mm(recommended)

It is recommend to use dedicated PV cable.

1 Wires threading.



2 Check correct polarity of wire connection from PV modules and PV input connectors. Ensure that the PV switch is OFF.




3 Wires threading.

4 Connect positive pole (+) of connection wire to positive pole (+) of PV input connector. Connect negative pole (-) of connection wire to negative pole(-) of PV input connector. Close the switch and ensure the wires are tightly fixed.

10

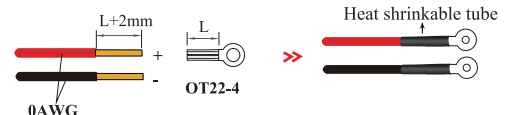
Battery Connection

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

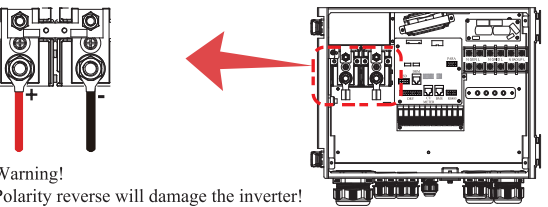
0AWG L+2mm L OT22-4

It is recommended that the battery cable be less than or equal to 3 m.

1 Wires making.



2 Wires threading.

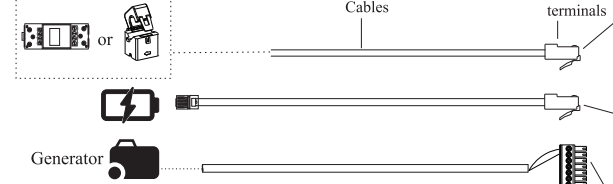


3 Wires connection.

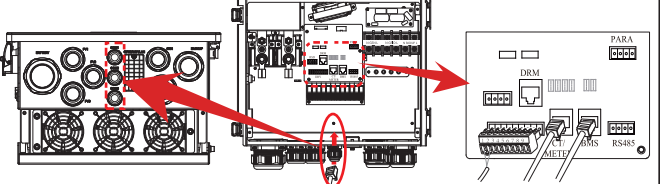
Warning! Polarity reverse will damage the inverter!

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Communication Cable(s) Connection (CT/Meter, BMS, DRY)



1 Make the RJ45/9-pin terminal according to each Pin definition.



Route the communication cable(s) into the junction box. Insert RJ45/9-pin terminals into corresponding ports. Make sure the connection is complete.

2

Meter	Inverter	Meter
Pin3(RS485_A)	Pin24	
Pin4(RS485_B)	Pin25	
OT	Pin 345678	
CT	Inverter	CT
Pin7	CTI+	
Pin8	CTI-	

BMS	Pin12 45	Pin1	RS485_A	Pin2	RS485_B	Pin3	/	Pin4	CAN_H	Pin5	CAN_L	Pin6	/	Pin7	/	Pin8	/

DRY	Pin 1 2	PIN	Function
		1	Generator Control
		2	Generator Control

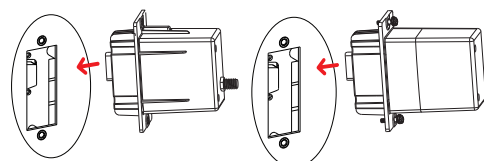
*This product is not equipped with RJ45 terminals.

12

GPRS/WIFI/LAN Module Installation (Optional)

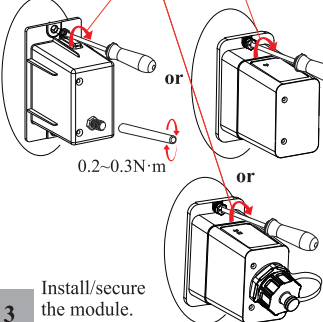
The appearance of modules may be slightly different. The figure shown here is only for illustration. For details, please refer to the corresponding Module Installation Guide in the packing.

1 Loosen two screws and remove the cover.



2 Insert GPRS/WIFI/LAN module into the port, and ensure that it does not fall off.

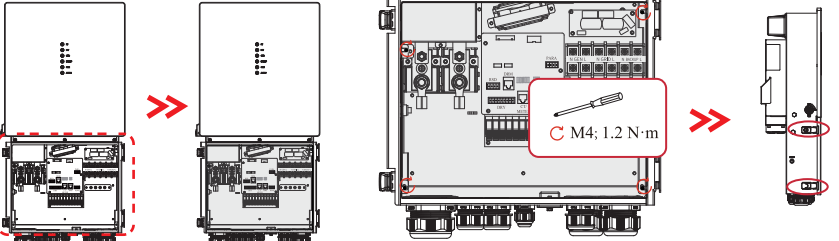
3 Install/secure the module.



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Insulation Piece Installation

Before installing insulation piece, please turn on all circuit breakers in junction box.



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Startup/shutdown Procedure

Startup Procedure

1 PV Switch OFF ON

2 Battery ON OFF

3 The first time: Go to APP (Quick Setup) The non-first-time: 5s "beep" sound

4 BACKUP ON OFF

5 Grid ON OFF

Shutdown Procedure

1 5s "beep" sound or go to APP (Quick Setup) Click

2 Battery ON OFF

3 Grid ON OFF

4 BACKUP ON OFF

5 PV Switch OFF ON

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.

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Quick Setup

A Preparation

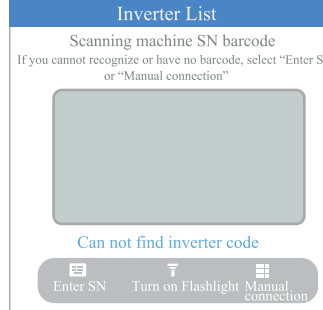
1. Download the APP.
• Scan the QR code on the inverter to download the APP. • Download the APP from the App Store or Google Play.
Note: the APP should access some permissions such as the device's location. You need to grant all access rights in all pop-up windows when installing the APP or setting your phone.

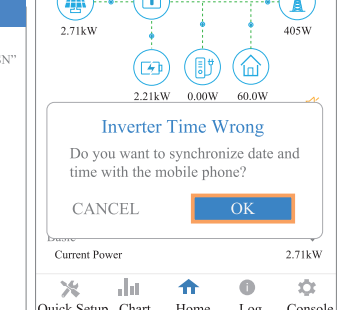
2. Power on the inverter.

B Connecting the Inverter

1. Open the Bluetooth on your own phone, then open the APP.
2. Then follow the instructions below.

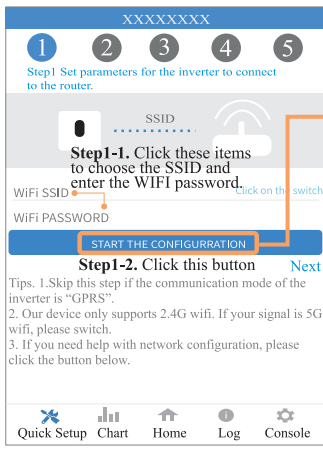


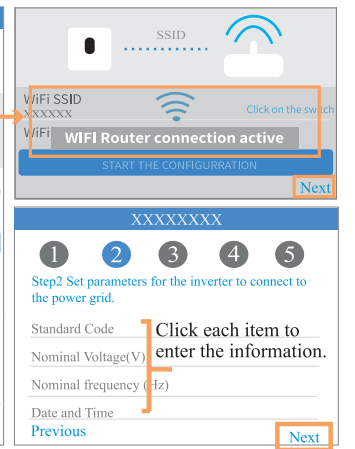




C Quick Setup







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Display

LED	Status	Description	LED	Status	Description
PV	On	PV input is normal.	COM	Blink	Data are communicating.
	Blink	PV input is abnormal.		Off	No data transmission.
	Off	PV is unavailable.		On	BACKUP power is available.
BAT	On	Battery is charging.	BACKUP	Blink	BACKUP output is abnormal.
	Blink	Battery is discharging. Battery is abnormal.		Off	BACKUP power is unavailable.
	Off	Battery is unavailable.		On	Fault has occurred and inverter shuts down.
GRID	On	GRID is available and normal.	ALARM	Blink	Alarms have occurred but inverter doesn't shut down.
	Blink	GRID is available and abnormal.		Off	No fault.
	Off	GRID is unavailable.			

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.