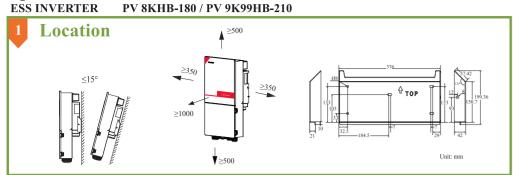
# **PrimeVOLT**

#### **OUICK INSTALLATION GUIDE**

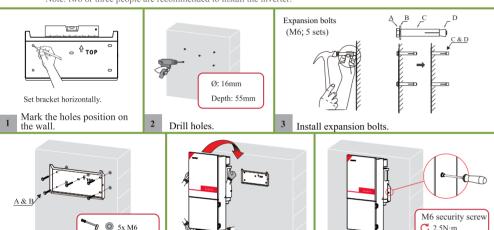


# **Installation**

1. The installation wall must be fireproof and non-flammable materials, otherwise there is a fire risk.

Before drilling holes, check whether there are electrical pipes or other pipes buried in the wall to avoid risks.

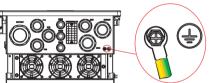
Note: two or three people are recommended to install the inverter



5 Install the inverter.

## **Grounding**

Ensure that the inverter and all cables to be installed have been completely powered off during the whole process of installation and connection. Otherwise, high voltage may result in fatal injury.

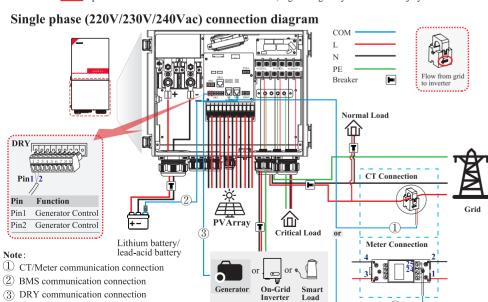


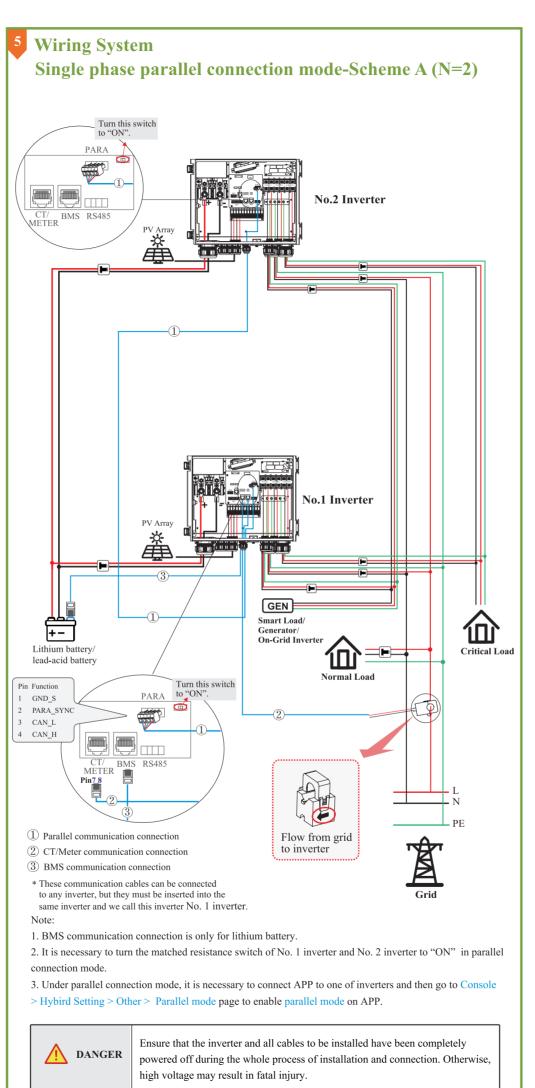
BMS communication connection is only for lithium battery.

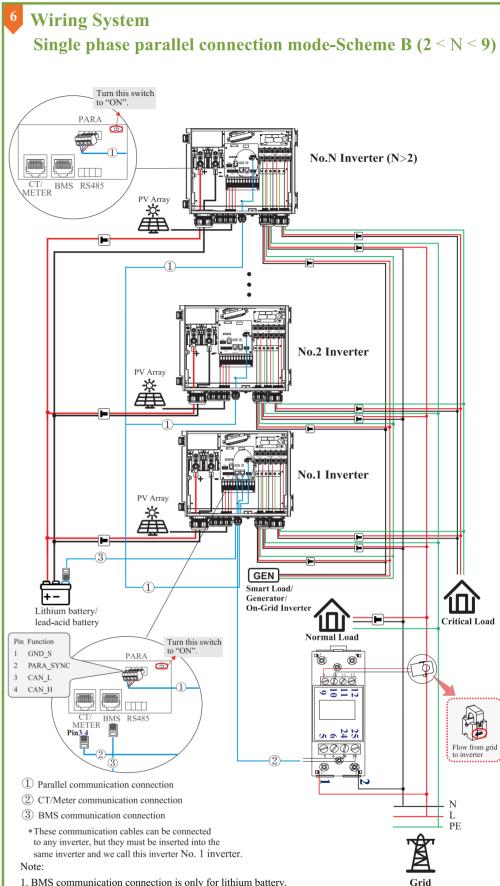
Items	Remark
Yellow green lines	4-2AWG
Screw	M6; 2.5N·m
OT Terminal	OT16-6.4



Ensure that the inverter and all cables to be installed have been completely powered off during the whole process of installation and connection. Otherwise, high voltage may result in fatal injury.





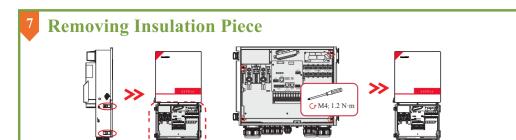


1. BMS communication connection is only for lithium battery.

- 2. It is necessary to additionally purchase applicable CT and meter according to the specific requirements in parallel connection mode-Scheme B.
- 3. It is necessary to turn the matched resistance switch of No. 1 inverter and No. N inverter to "ON" in parallel connection mode.
- 4. With parallel connection mode, it is necessary to connect APP to one of inverters and then go to Console > Hybird Setting > Other > Parallel mode page to enable parallel mode on APP.



Ensure that the inverter and all cables to be installed have been completely powered off during the whole process of installation and connection. Otherwise, high voltage may result in fatal injury.

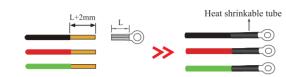


## **GRID/BACKUP/GEN Connection**

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.

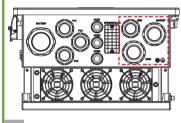
It is recommended to use outdoor dedicated cables

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



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

Wires making



Wires threading.

According to labels on the terminal block, fit the wires' connectors in and tighten the terminal screws

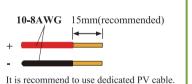
Make sure the connection is secured



#### 1. Photovoltaic arrays exposed to sunlight will generate dangerous voltages!

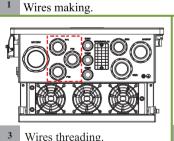
C M6: 2 N·m

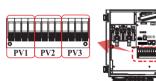
2.Before connecting the PV terminal, ensure that both the AC terminal and the DC terminal are powered off and the PV switch is OFF. Otherwise there is a risk of high voltage shock.

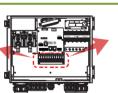




Check the polarity of wire connection and make sure the PV switch is OFF.







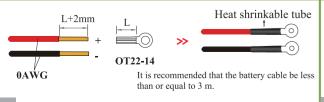
Connect positive pole (+)connection wire to positive pole (+) of PV input onnector. Connect negative pole (-) of connection wire to negative pole(-) of PV input connector. Close the switch and ensure the wires are tightly fixed.

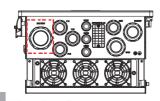
## **Battery Connection**



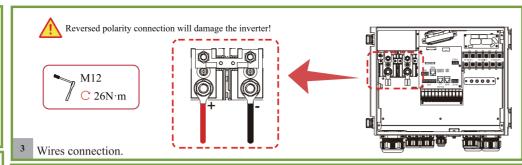
Wires making.

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.

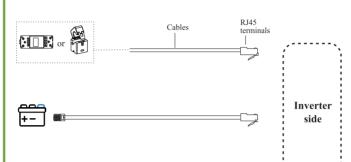




Wires threading



## **Communication Cables Connection** (CT/Meter, BMS, DRY)



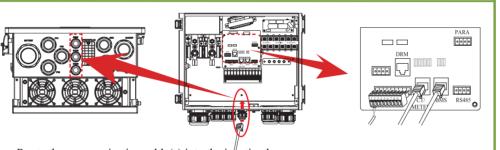
Pin 345678 CT1+ CT1-Pin1: RS485\_A Pin2: RS485\_B Pin3: / Pin4: CAN\_H Pin5: CAN\_L

\*This product is not equipped with RJ45

Pin3(RS485 A) Pin24 Pin4(RS485\_B) Pin25

DRY		
Pin 1 2	PIN	Function
	1	Generator Contro
CERTIFICATION OF THE PERSON OF	2	Generator Contro

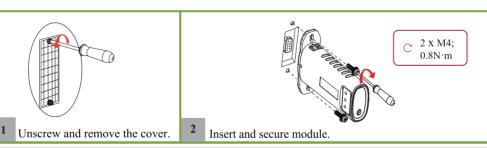
Assemble the RJ45/9-pin terminal according to applicable Pin definition.



Route the communication cable(s) into the junction box. Insert RJ45/9-pin terminals into corresponding ports. Ensure the terminals are well-connected.

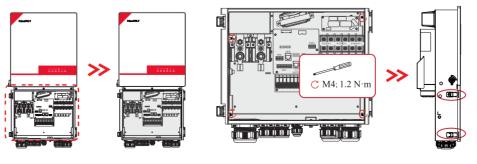
# **GPRS/WIFI/LAN Module Installation (Optional)**

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.



## **Insulation Piece Installation**

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



## Startup/shutdown Procedure

#### Inspection

#### No. Items

The inverter is firmly installed.

There is enough heat dissipation space, no external objects or parts left on the inverter. It is convenient for operation and maintenance.

The wiring of the system is correct and firm.

Check whether the DC and AC connections are correct with a multimeter, and ensure there is no short circuit, break, or wrong connection.

Check whether the waterproof nuts of each part are tightened.

The vacant ports have been well-sealed; all gaps at the cable inlet and outlet holes have been plugged with fireproof/waterproof materials, such as fireproof mud.

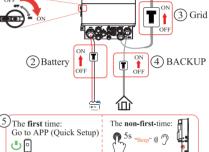
All safety labels and warning labels on the inverter are complete and without occlusion or

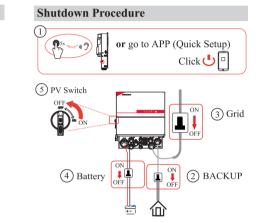


**Startup Procedure** 

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 the inverter.







#### **Display**



•	BAT
	GRID

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

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

For more installation instructions, please scan the QR code on the right



