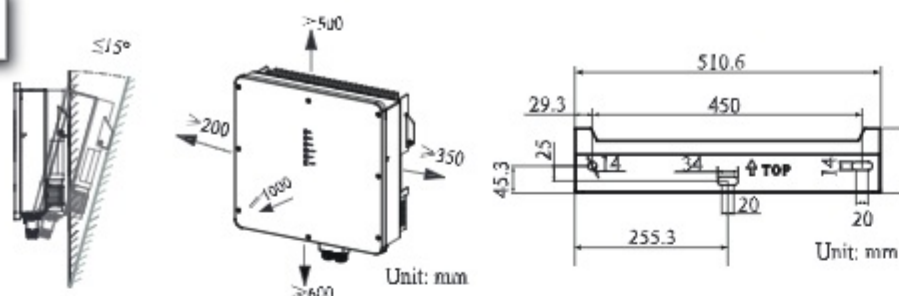


QUICK INSTALLATION GUIDE

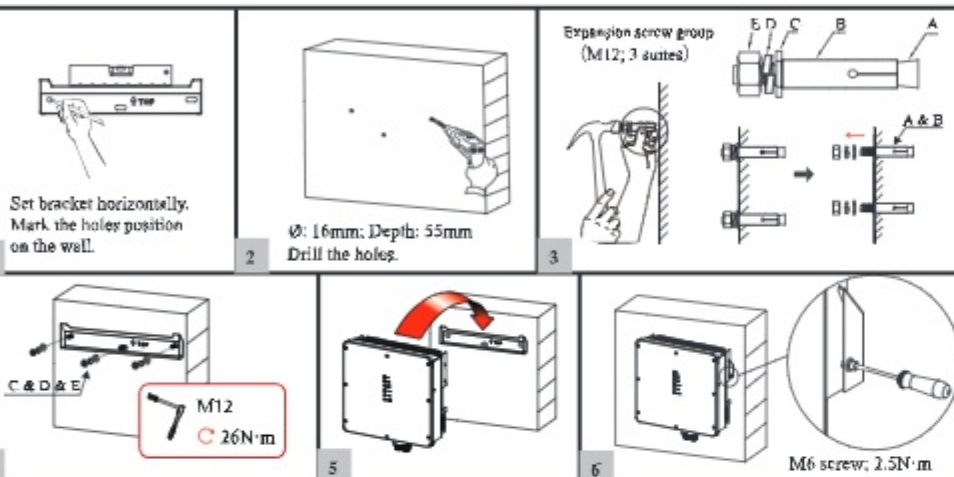
Single-phase ESS Inverter 3.6K/3.68K/4.6K/5K/6K

1 Location



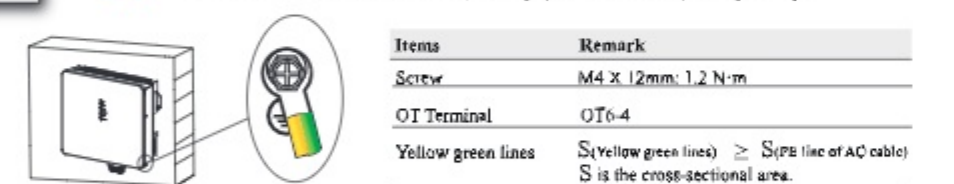
2 Installation

1. The walls must be fireproof and non-flammable materials, otherwise there is a fire risk.
2. Before drilling holes, check whether there are electric power pipes or other pipes buried in the walls to avoid risks.



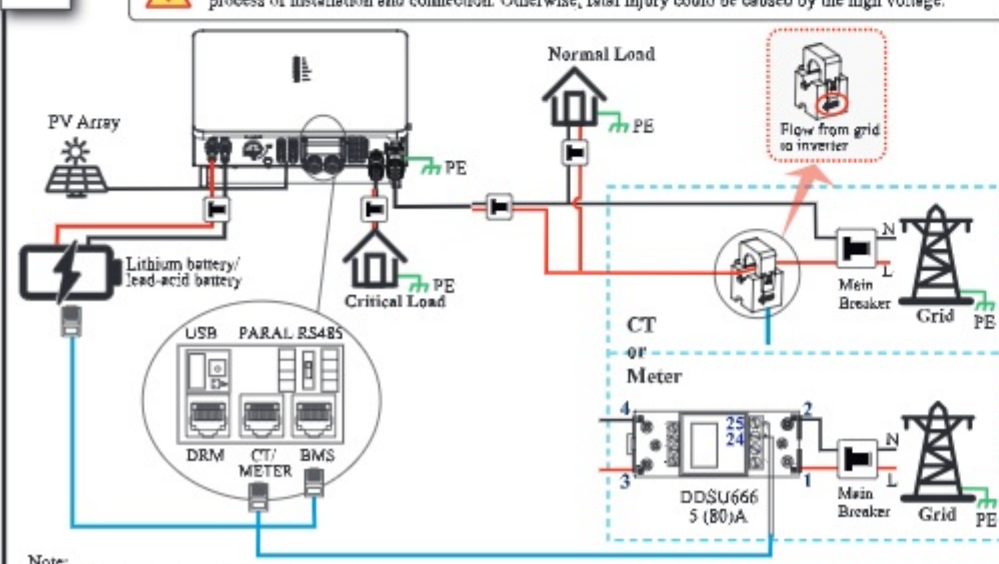
3 Grounding

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



4 Wiring System Non-parallel connection mode

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

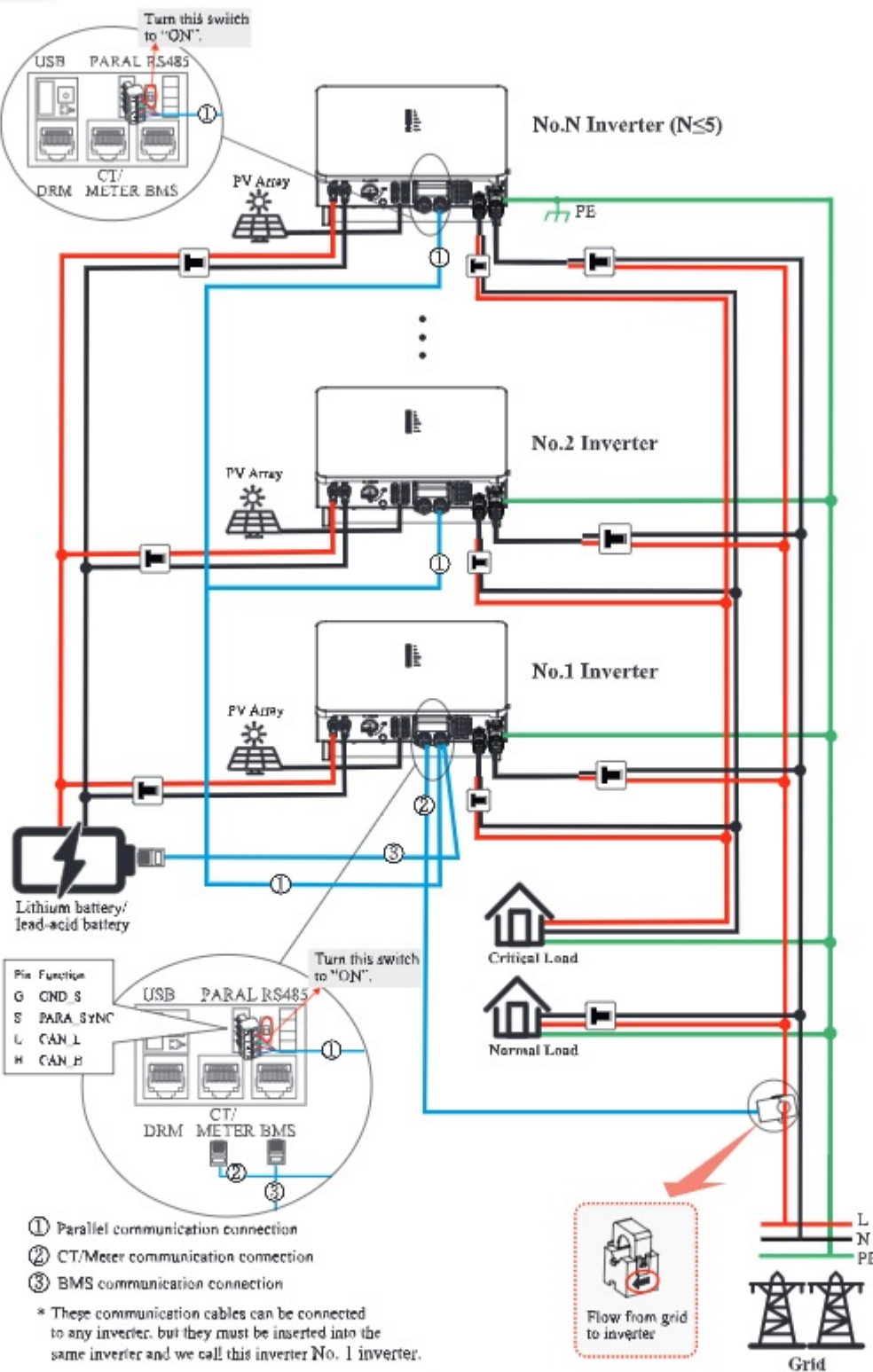


- Note:
1. PV related contents are N/A for AC Couple inverter.
 2. BMS communication connection is only for lithium battery.
 3. Meter is optional.

5

Wiring System

Single phase parallel connection mode-Scheme A (N≤5)



- ① Parallel communication connection
- ② CT/Meter communication connection
- ③ BMS communication connection

* These communication cables can be connected to any inverter, but they must be inserted into the same inverter and we call this inverter No. 1 inverter.

Note:

1. PV related contents are N/A for AC Couple inverter.
2. BMS communication connection is only for lithium battery.
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 > Other Setting](#) page to enable [Parallel mode](#) on APP.

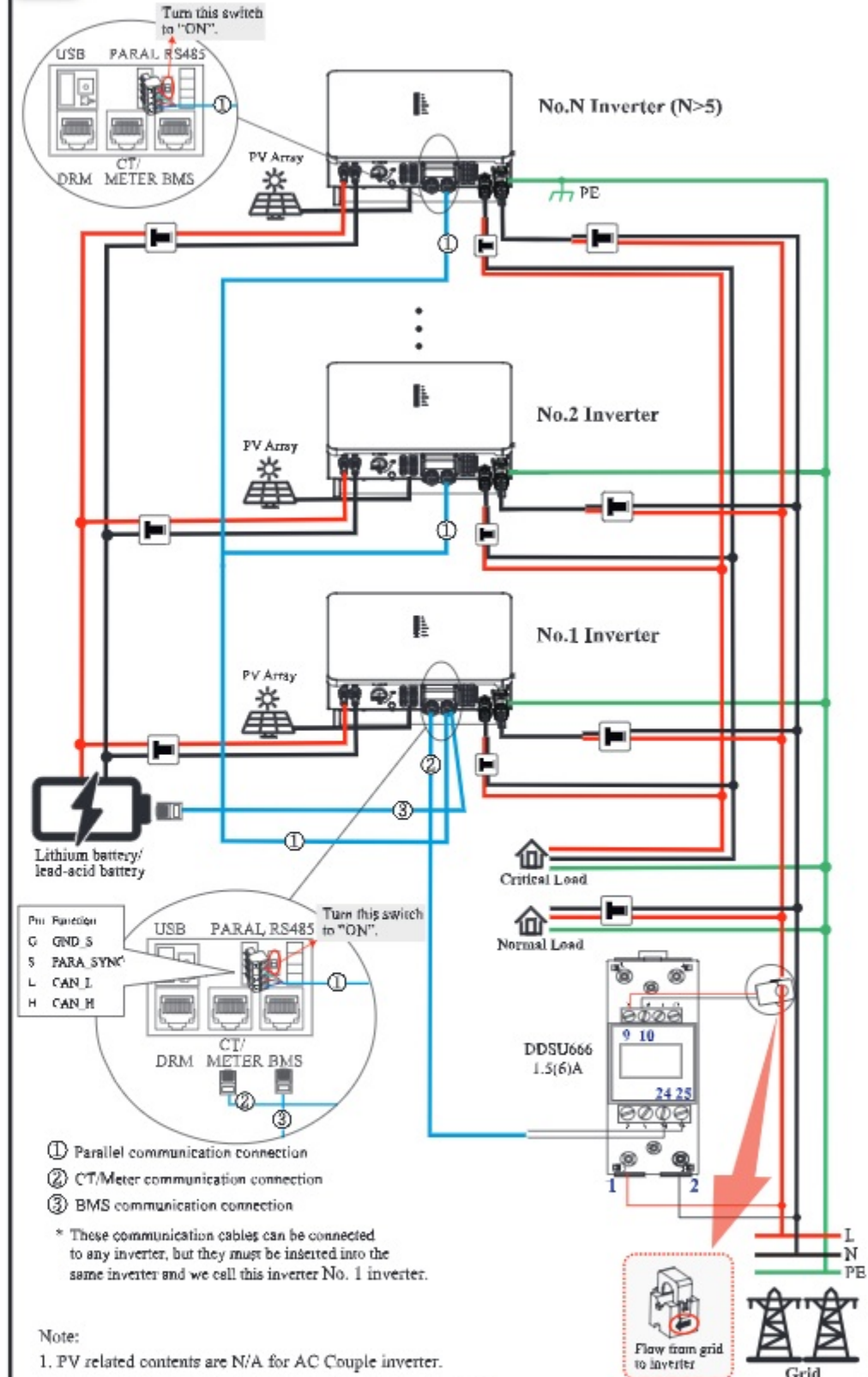


Ensure that the inverter and all cables to be installed have been completely powered off during the whole process of installation and connection. Otherwise, fatal injury could be caused by the high voltage.

6

Wiring System

Single phase parallel connection mode-Scheme B (N>5)



- ① Parallel communication connection
- ② CT/Meter communication connection
- ③ BMS communication connection

* These communication cables can be connected to any inverter, but they must be inserted into the same inverter and we call this inverter No. 1 inverter.

Note:

1. PV related contents are N/A for AC Couple inverter.
2. BMS communication connection is only for lithium battery.
3. It is necessary to additionally purchase suitable CT and meter according to the specific requirements in parallel connection mode-Scheme B.
4. It is necessary to turn the matched resistance switch of No. 1 inverter and No. N inverter to "ON" in parallel connection mode.
5. With parallel connection mode, it is necessary to connect APP to one of inverters and then go to [Console > Other Setting](#) 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, fatal injury could be caused by the high voltage.

7 GRID/BACKUP Connection

⚠ Before connecting the GRID/BACKUP 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 with multiple copper cores.

A. Diameter 14~20/10~14mm
B. Cross Section 8~14/4~6mm²
C. Strip Length ~10mm

8 PV Connection (N/A for AC Couple Inverter)

⚠ 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.

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

9 Battery Connection

A. Diameter 10~12mm
B. Cross Section 25mm²
C. Strip Length ~10mm

10 GPRS/WIFI/LAN Module Installation (Optional)

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

11 Communication Cable(s) Connection (CT/Meter and BMS)

BMS

Pin1:	RS485_A
Pin2:	RS485_B
Pin3:	GND_S
Pin4:	GND_S
Pin5:	GND_S
Pin6:	GND_S
Pin7:	CAN_L
Pin8:	CAN_H

Meter

Pin1 or Pin3 (RS485_A)	Pin24
Pin2 or Pin4 (RS485_B)	Pin25
Pin3 (CT-)	Blue-white
Pin5 (CT-)	Blue-white
Pin6 (CT+)	Green
Pin7 (Test-)	Brown-white

Don't cut off any communication cables. Press the communication cables in the seal via the side incisions.

12 Startup/Shutdown Procedure

Startup Procedure

- PV Switch
- Battery Circuit Breaker
- AC Circuit Breaker
- BACKUP Circuit Breaker
- Go to APP (Quick Setup)

Shutdown Procedure

- Go to APP (Quick Setup)
- PV Switch
- AC Circuit Breaker
- Battery Circuit Breaker
- BACKUP Circuit Breaker

Inspection

- 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 whether there is a short circuit, break, or wrong connection.
- Check whether the waterproof nuts of each part are tightened.
- 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.
- 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.

13 Quick Setup

A Preparation

- Download the APP.
 - Scan the QR code on the inverter to download the APP.
 - Download the APP from the App Store or Google Play.
- Power on the inverter.

B Connecting the Inverter

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

C Quick Setup

14 Display

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