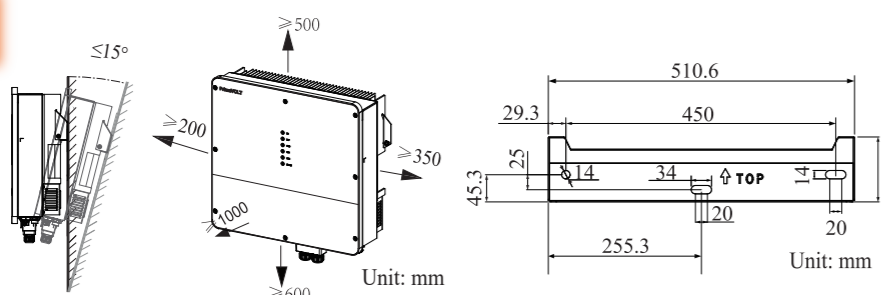


# PrimeVOLT QUICK INSTALLATION GUIDE

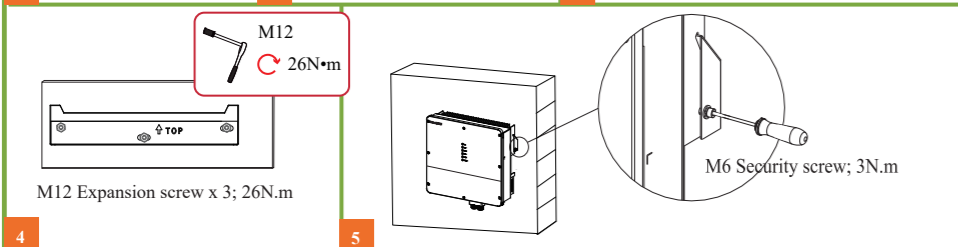
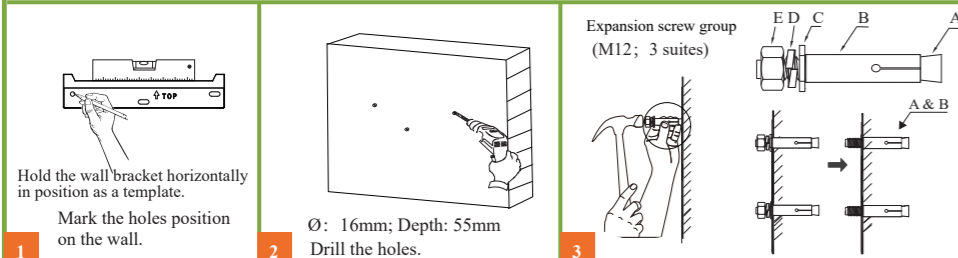
Single-phase ESS Inverter 3.6K/4.6K/5K/6K

## 1 Location



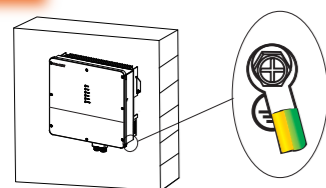
## 2 Installation

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



## 3 Grounding

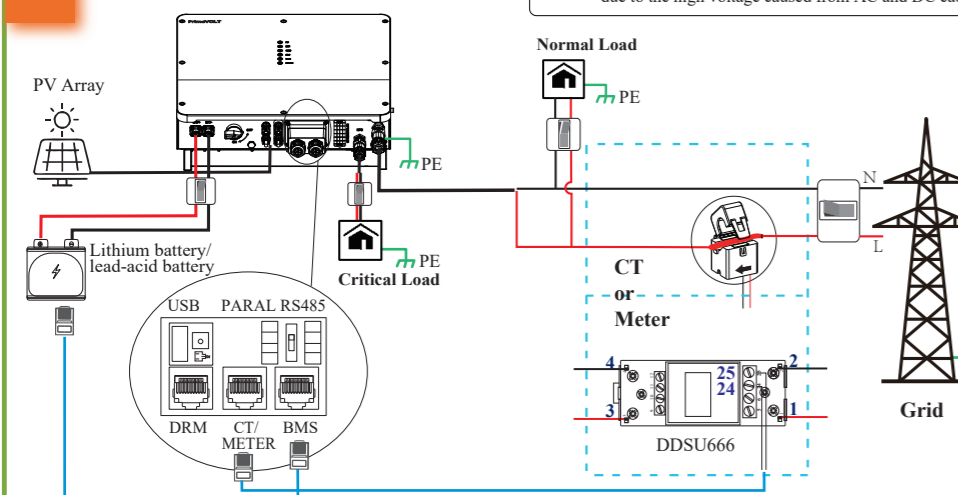
- Ensure that inverter and all cables to be installed are completely powered off during whole installation and connection. Otherwise, fatal injury can occur due to the high voltage caused from AC and DC cables.



Items	Remark
Screw	M4 X 12mm; 1.2 N.m
OT Terminal	OT6-4
Yellow green lines	$S_{\text{Yellow green lines}} \geq S_{\text{PE line of AC cable}}$ S is the cross-sectional area.

## 4 Wiring System Non-parallel connection mode

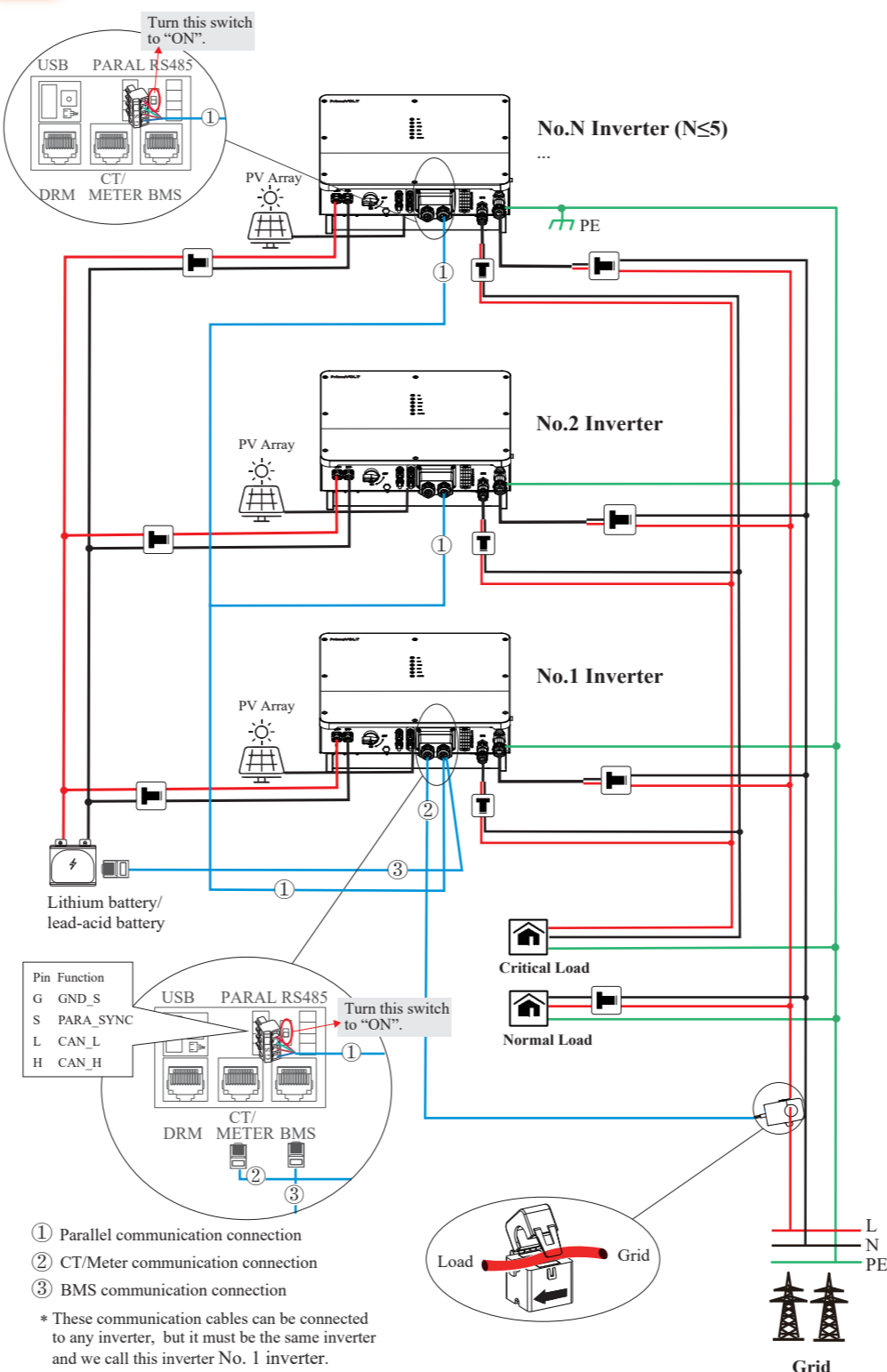
- Ensure that inverter and all cables to be installed are completely powered off during whole installation and connection. Otherwise, fatal injury can occur due to the high voltage caused from AC and DC cables.



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)



- Parallel communication connection
  - CT/Meter communication connection
  - BMS communication connection
- \* These communication cables can be connected to any inverter, but it must be the same inverter and we call this inverter No. 1 inverter.

Note:

- PV related contents are N/A for AC Couple inverter.
- BMS communication connection is only for lithium battery.
- It is necessary to turn the matched resistance switch of No. 1 inverter and No. N inverter to "ON" in parallel connection mode.
- 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.

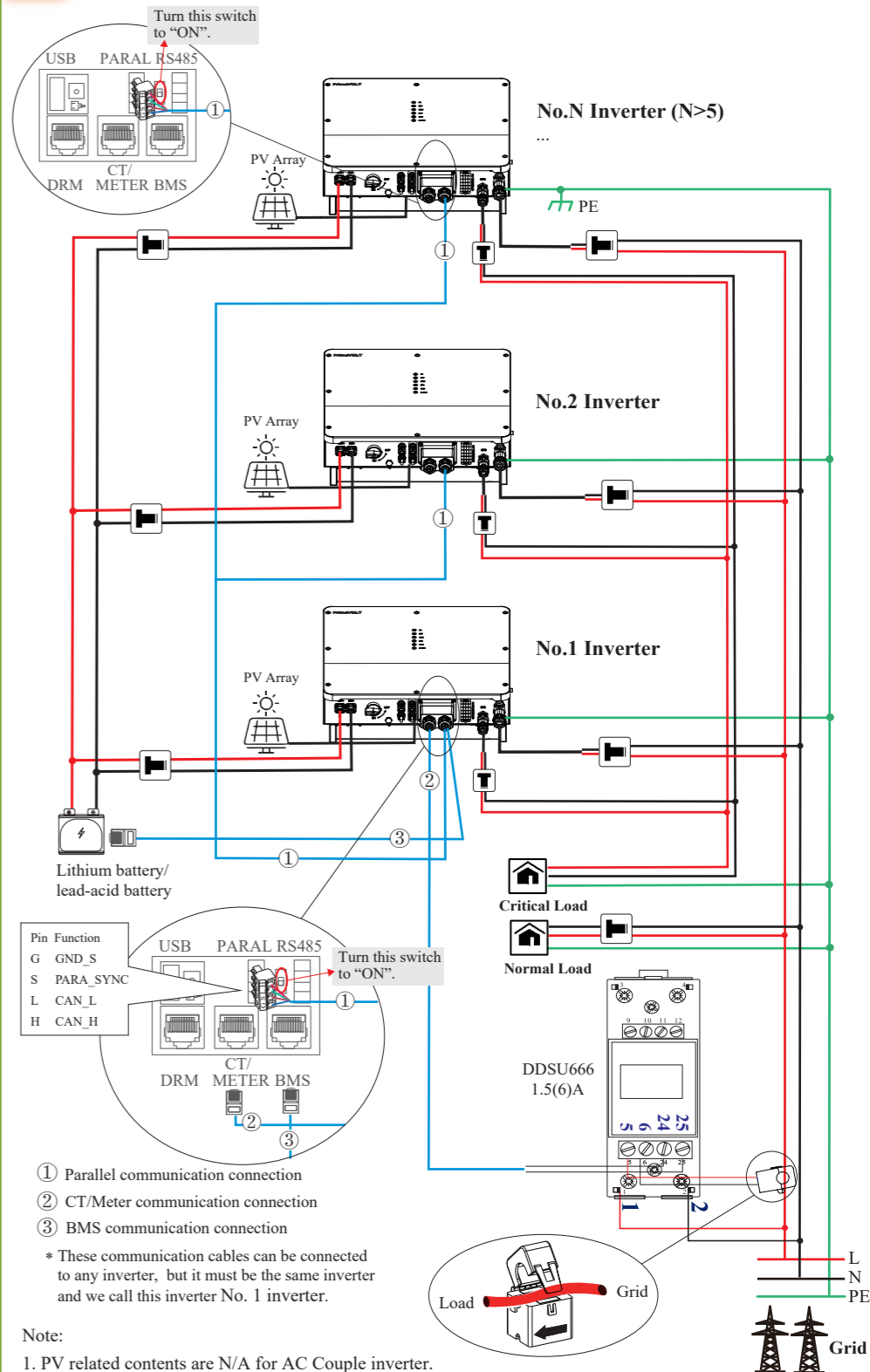


**DANGER**

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 caused from AC and DC cables.

## 6

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



- Parallel communication connection
- CT/Meter communication connection
- BMS communication connection

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

Note:

- PV related contents are N/A for AC Couple inverter.
- BMS communication connection is only for lithium battery.
- It is necessary to additionally purchase suitable CT and meter according to the specific requirements in parallel connection mode-Scheme B.
- It is necessary to turn the matched resistance switch of No. 1 inverter and No. N inverter to "ON" in parallel connection mode.
- 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.



**DANGER**

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 caused from AC and DC cables.

### 7 GRID/EPS Connection

**⚠** Before connecting the GRID/EPS 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.

**1** A. Diameter 14 ~ 20/10~14mm  
B. Cross Section 8~14/4~6mm<sup>2</sup>  
C. Strip Length ~10mm

**2** Tighten three screws and ensure each screw cap does not exceed the surface.

**3** Tighten nut to avoid loosening.

**4** Click

### 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.

**1** Diameter 4~6mm

Using crimping tool to stitch. Limit buckle can't be crimped.

Click

Click

Positive Connector

Negative Connector

Tighten the waterproof nuts on each connector with a wrench to avoid loosening.

Test string voltage and confirm string polarity.

Ensure that the PV switch is OFF.

Note: DC cable should be dedicated PV cable (suggest using 4~6mm<sup>2</sup> PV1-Fcable).

### 9 Battery Connection

**1** A. Diameter 10~12mm  
B. Cross Section 25mm<sup>2</sup>  
C. Strip Length ~10mm

**2** Hydraulic Pressure Crimper

**3** Click

**4** DC Breaker 150A

It is recommended that the battery cable be less than or equal to 3 m.  
This product is not equipped with DC breakers.

**5** Warning! Polarity reverse will damage the inverter!

### 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.

**1** Loosen two screws and move the cover.

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

**3** Install/secure the module.

Proper strength to avoid damage to the module.  
2 x M4 screws; 0.8N·m

0.2~0.3N·m

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

**1** Unscrew the waterproof cover and loosen the rubber nut on waterproof cover.

**2** Make the RJ45 terminal according to each Pin definition. Lead the communication cable (s) through the rubber nut, seal and waterproof cover in turn.

**3** Insert RJ45 terminals into corresponding ports.  
Screw the waterproof cover back to inverter firmly with 4 x M4 screws (1.2N·m).  
Install the seal into the threaded sleeve, fasten the rubber nut.

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

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 Inverter Pin1 or Pin3(RS485\_A) Pin24  
Pin2 or Pin4(RS485\_B) Pin25  
Or: CT Inverter CT Pin5 (CT-) Black  
Pin6 (CT+) Red

Threaded sleeve  
Cables  
Rubber nut  
Seal  
Waterproof cover  
RJ45 terminals  
Inverter side

### 12 Startup/shutdown Inverter

#### 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 port has been sealed.
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 electrical shock and body burns. If need to disconnect the inverter cables, please wait at least 10 minutes before touching these parts of inverter.

#### Startup Inverter

1 Battery Circuit Breaker ON  
2 DC Switch ON  
3 AC Circuit Breaker ON  
4 AC Circuit Breaker ON  
5 Go to APP (Quick Setup)

#### Shutdown Inverter

1 Go to APP (Quick Setup) Click  
2 AC Circuit Breaker OFF  
3 AC Circuit Breaker OFF  
4 DC Switch OFF  
5 Battery Circuit Breaker OFF

### 13 Quick Setup

#### A Preparation

- Download APP.
  - Scan the QR code on the inverter to download the APP.
  - Download APP from the App Store or Google Play.
 Note: The APP should access some permissions such as device's location. You need to allow all permissions to be granted in all pop-up windows when installing the APP or in your own phone setting.
- 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	LED	Status	Description
PV	On	PV input is normal.	COM	On	Communication is ok.
	Blink	PV input is abnormal.		Off	Power supply is unavailable.
	Off	PV is unavailable.		On	EPS power is available.
BAT	On	Battery is charging.	EPS	Blink	EPS output is abnormal.
	Blink	Battery is discharging.		Off	EPS power is unavailable.
GRID	On	GRID is available and normal.	ALARM	On	Fault has occurred and inverter shuts down.
	Blink	GRID is available and abnormal.		Blink	Alarms has occurred but inverter doesn't shut down.
	Off	GRID is unavailable.		Off	No fault.

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