

# PrimeVOLT

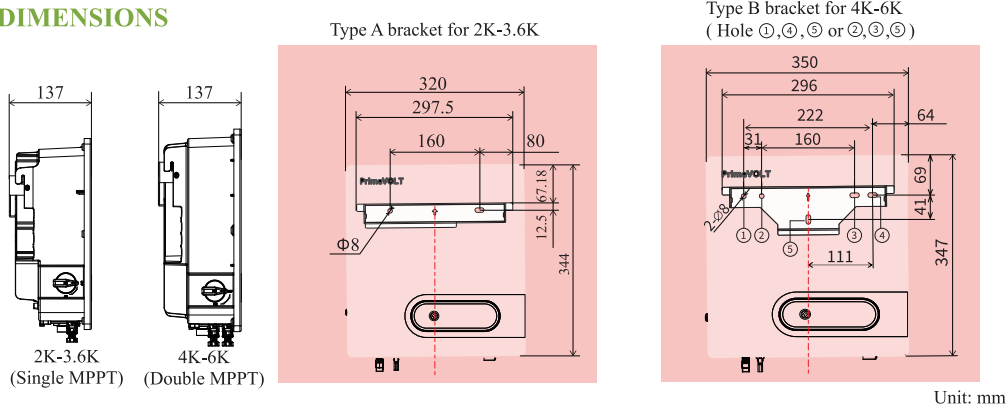
## QUICK INSTALLATION GUIDE

Single-phase Grid-tied PV String Inverter 2K/3K/3.6K/4K/5K/6K

### 1 PACKING CONTENTS

				A Inverter	E DC terminal connector group
				B Mounting bracket	F Screws
				C AC output Connector	G Removal tool for DC connector
				D File package	H Removal tool for AC connector (Optional)
				I Expansion screw group	J RS485 cover
				K 6-Pin terminal	

### 3 DIMENSIONS

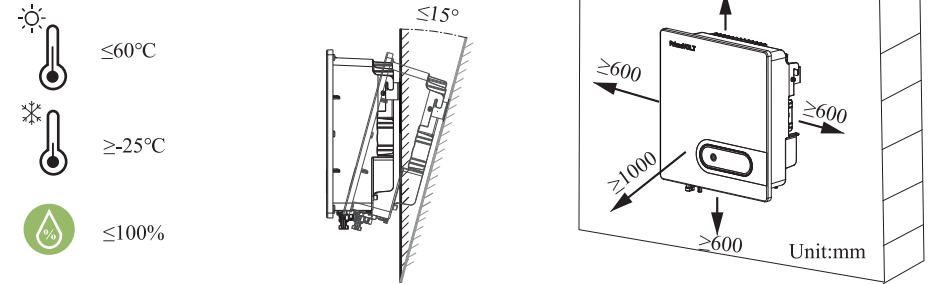


### 4 INSTALLATION

- 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.
- Note: The following steps are only illustrated by the type A bracket.

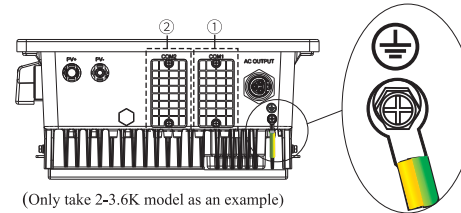
- Set bracket horizontally. Mark the holes position on the wall.
- Drill the holes. Ø: 10mm; Depth: 60mm.
- Install the expansion tubes.
- M6 Expansion screws; 2.5N·m
- 2 x M4 Security screws

### 2 INSTALLATION LOCATION



### 5 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.



Items	Remark
Screw	M4 X 12mm; 1.2 N·m
OT Terminal	OT6-4
Yellow green lines	S (Yellow green lines) ≥ S (PE line of AC cable) S is the cross-sectional area.

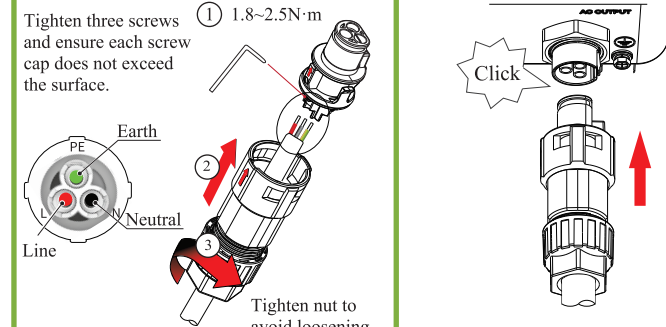
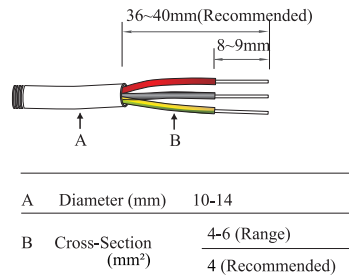
Note: ① is for WiFi/GPRS communication (For WiFi Connection, refer to Stick Logger Quick Guide).  
② is for RS485 communication.

### 6 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.

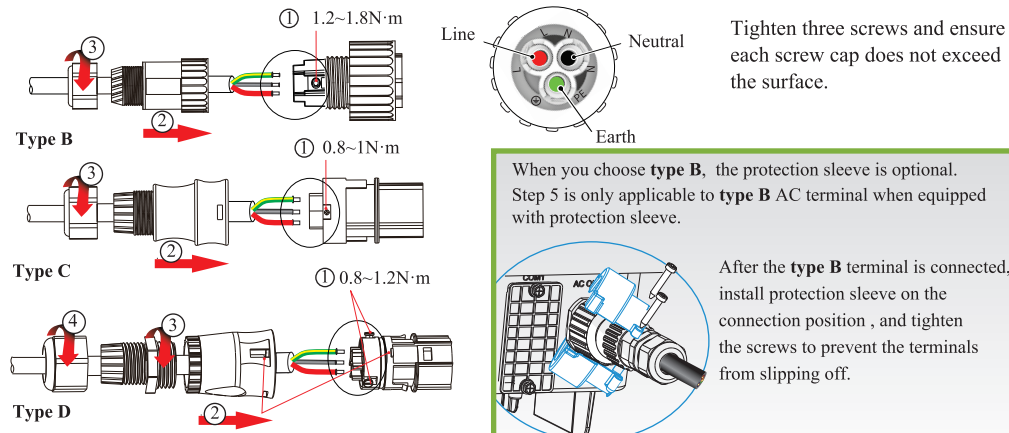
Note: There are four types of AC terminals. Please refer to the object in the delivery. Type A is in usual. Whether you use type A, B, C or D, tighten the waterproof nut to avoid loosening. Take type A as example in the following steps.

- It is recommended to use outdoor dedicated cables with multiple copper cores.
- Tighten three screws and ensure each screw cap does not exceed the surface. ① 1.8~2.5N·m
- Tighten nut to avoid loosening.
- Insert the AC terminal. Click

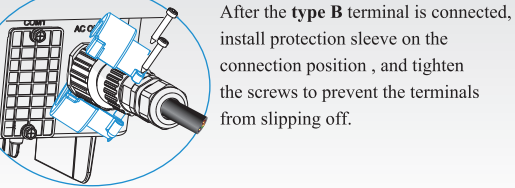


The wiring process of **type B**, **type C**, **type D** are shown as below.

Note: Whether you use type A, B, C or D, tighten the waterproof nut to avoid loosening.



When you choose **type B**, the protection sleeve is optional. Step 5 is only applicable to **type B** AC terminal when equipped with protection sleeve.

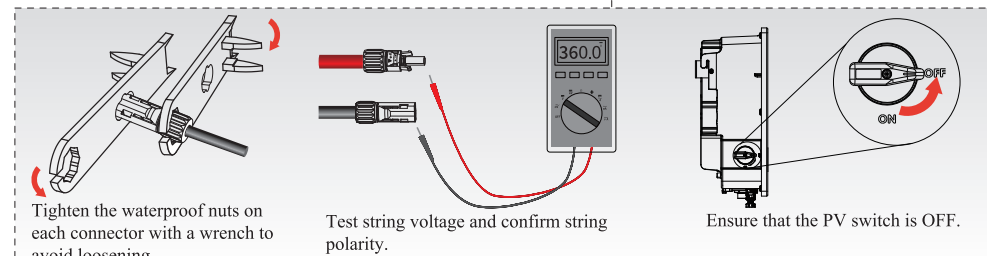
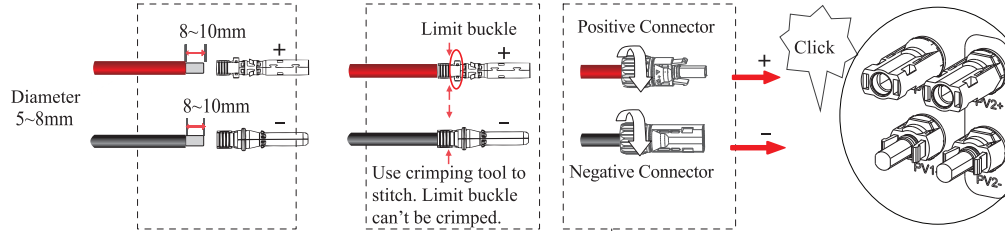


3-B/C/D

5

## 7 PV CONNECTION

- Photovoltaic arrays exposed to sunlight will generate dangerous voltages!
- Before connecting the PV 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.



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

## 10 DISPLAY

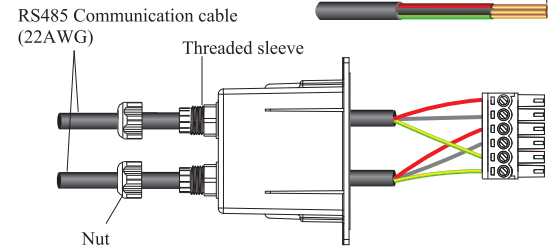
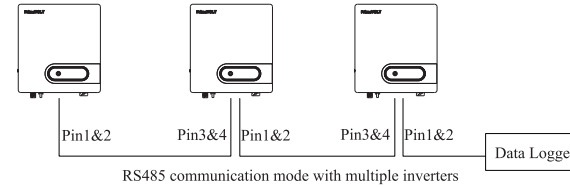


LED LCD(Optional)

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

## 8 RS485 CONNECTION

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



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.

2 Wires making, threading and wiring.

## 9 STARTUP / SHUTDOWN PROCEDURE

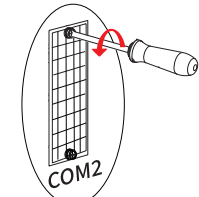
Inspection

No. Items

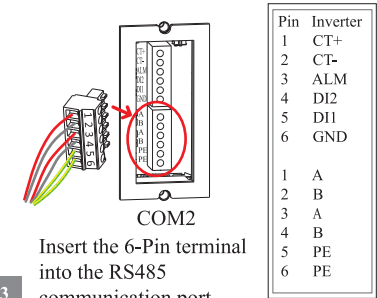
- The inverter is firmly installed.
- There is enough heat dissipation space, no external objects or parts left on the inverter.
- It is convenient for operation and maintenance.
- The wiring of the system is correct and firm.
- Check whether the DC and AC connections are correct with a multimeter, and 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.



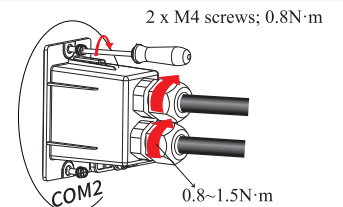
After the inverter is powered off, the remaining electricity and heat may still cause electric shock and body burns. If need to disconnect the inverter cables, please wait at least 10 minutes before touching these parts of inverter.



1 Loosen the screws and remove the cover plate.

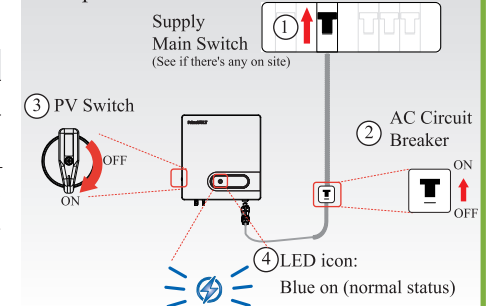


3 Insert the 6-Pin terminal into the RS485 communication port.



4 Install the RS485 cover.

Startup Procedure



Shutdown Procedure

