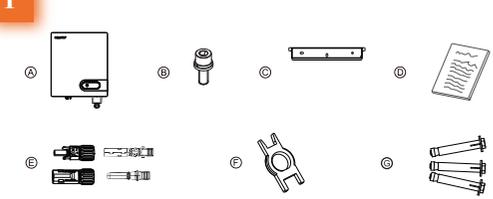


# PrimeVOLT

## QUICK INSTALLATION GUIDE

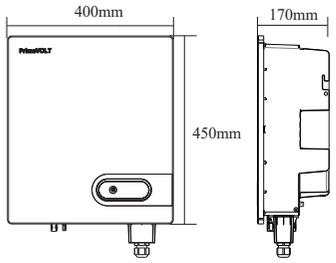
Single-phase Grid-tied PV String Inverter 7K/8K/10K

### 1 PACKAGE CONTENTS

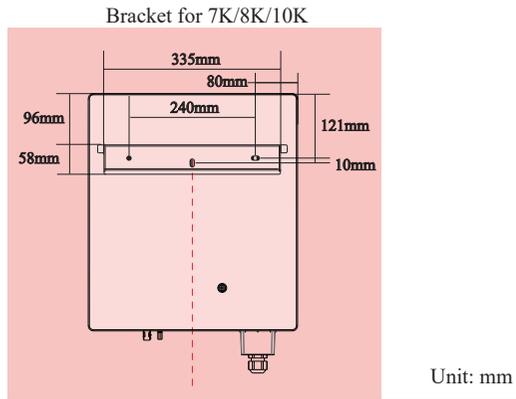


Items	Deliverables
A	The inverter
B	M6 Screw
C	Rear panel
D	File package
E	DC terminal connector group
F	Removal tool for DC connector
G	Expansion screws (reserved for tightening the rear panel)

### 2 DIMENSIONS



7K/8K/10K  
Single MPPT



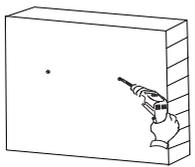
Unit: mm

### 3 INSTALLATION

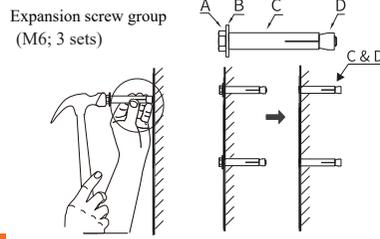
- 1. The walls must be fireproof and non-flammable materials, otherwise there is a fire risk.
- 2. Before drilling holes, check whether there are electric power pipes or other pipes buried in the walls to avoid risks.



Set bracket horizontally.



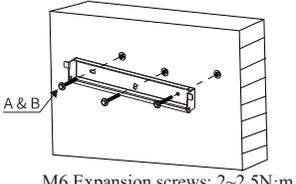
Ø: 10mm; Depth: 60mm



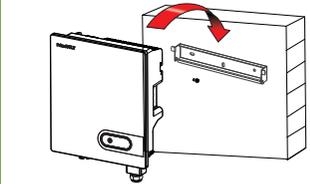
3 Install the expansion tubes.

1 Mark the holes position on the wall.

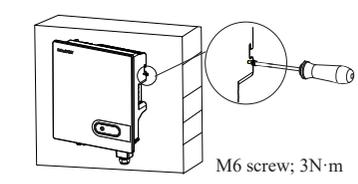
2 Drill the holes.



4 Install bracket.



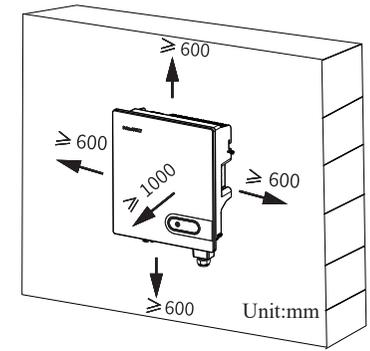
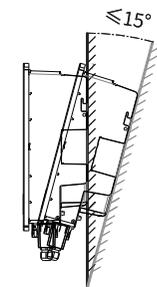
5 Install the inverter.



6 Tighten the screws at both sides.

### 4 INSTALLATION LOCATION

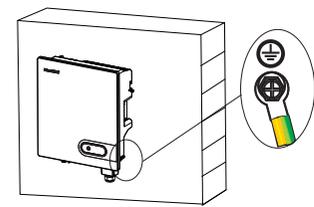
- ☀️ ≤60°C
- ❄️ ≥-25°C
- 💧 ≤100%



Unit:mm

### 5 GROUNDING

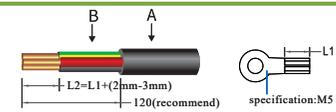
⚠️ Ensure that inverter and all cables to be installed are completely powered off during whole installation and connection. Otherwise, fatal injury can occur due to the high voltage.



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.

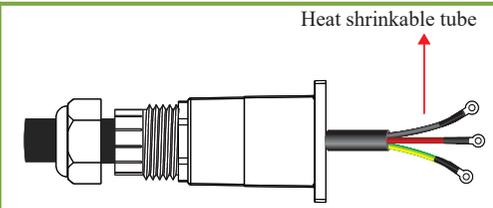
### 6 AC CONNECTION

⚠️ 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.



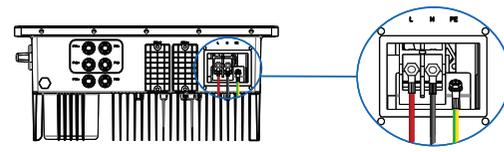
It is recommended to use outdoor dedicated cables with multiple copper cores.

No.	Name	Model	7K-10K
A	Wire outer diameter(mm)	Range	14-20
B	Cross-sectional area (mm <sup>2</sup> )	Range	8
		Recommended	8-14

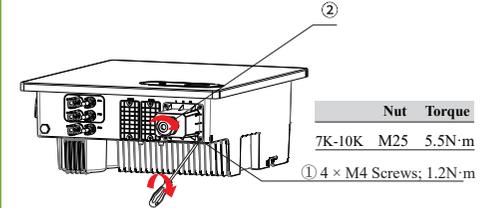


1 Wires making.

2 Wires threading and pressing.



3 Lock the AC cable to the corresponding AC terminals.



①Align the AC cover with the 4 holes and tighten it firmly with 4 × M4 screws.

②Fasten the nut (waterproof cap).

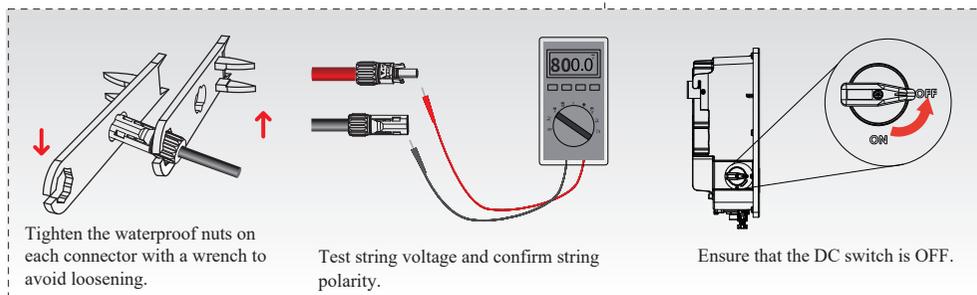
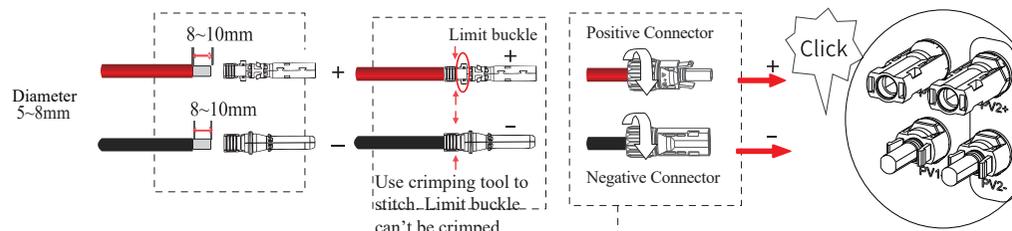
Screw Torque		
7K-10K	M5	1.5N·m

Nut Torque	
7K-10K	M25 5.5N·m
① 4 × M4 Screws; 1.2N·m	

## PV CONNECTION

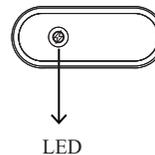


1. Photovoltaic arrays exposed to sunlight will generate dangerous voltages!
2. Before connecting the PV terminal, ensure that both the AC terminal and the DC terminal are powered off and the DC switch is OFF. Otherwise there is a risk of high voltage shock.



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

## DISPLAY



LED status	Explanation
Red/green/blue light up in turn	1. Inverter firmware updating 2. Initial status of power-on
Blue blinks slowly (1s/time)	Standby
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

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.

## STARTUP / SHUTDOWN PROCEDURE

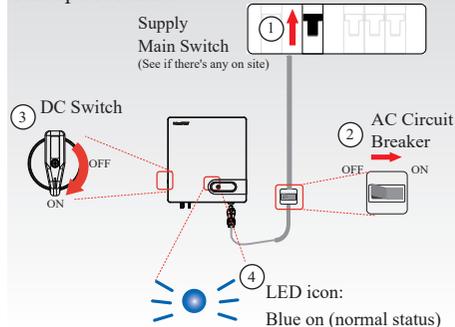
### INSPECTION

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 5 minutes before touching these parts of inverter.

### Startup Procedure



### Shutdown Procedure

