

規 格 書 SPECIFICATION

文件類別 File Type

機密等級 Confidential Level
高中低低

料號 Part No.	614-00211		
版本 Rev.	0	角碼 Footnote	A
規格描述 Description	INST MANU 1P 10KW EN EDISON		
GP 等级 GP Level	GP1D		
應用類別 Application Type	☑PV INVERTER ☐ UPS ☐ 其他 Others		
備註 Remarks			

會簽單位 Signature			
核準 Approved	審核 Checked	制作 Prepared By	
尤嘉勳	林家昇	汪大杰	

SPECIFICATION

RECORD OF REVISION					
DATE	REV.	DESCRIPTION OF CHANGED	CHANGE NO.	APPLICANT	APPROVAL
2023-09-06	0		新发行	汪大杰	尤嘉勳

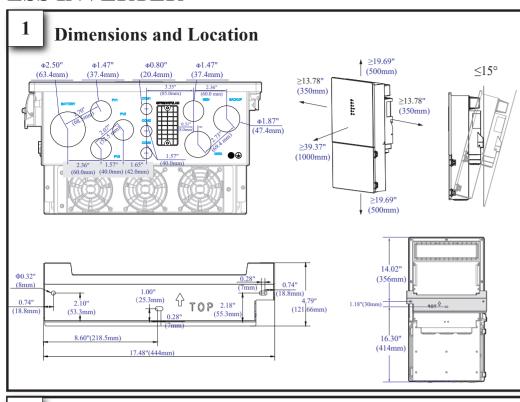
NOTE:

- 1.说明书的打印纸张规格为: A3, 材质: 80G 双胶纸, 打印方式为: 双面彩色打印;
- 2.交收时按 A4 版本大小折叠; 需保持纸面整洁, 不可污秽, 纸张不可破损;
- 3.图面的内容和文字必须清晰可辨,不可随意涂改;

A3 纸张大小可接受的范围: 长: 420+/-5 mm

宽: 297+/-5 mm

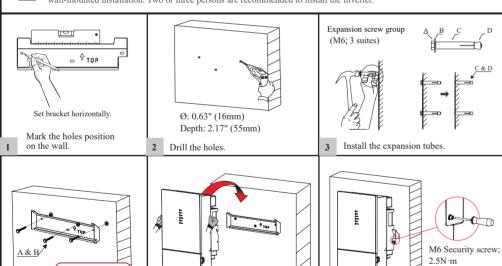
QUICK INSTALLATION GUIDE ESS INVERTER 5/6/7.6/10k ul





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.

Inverter can be installed on the wall or supported by means of mounting bracket. The following steps only illustrate wall-mounted installation. Two or three persons are recommended to install the inverter.



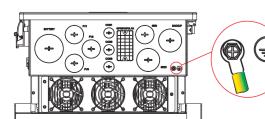
3 **Grounding**

M6

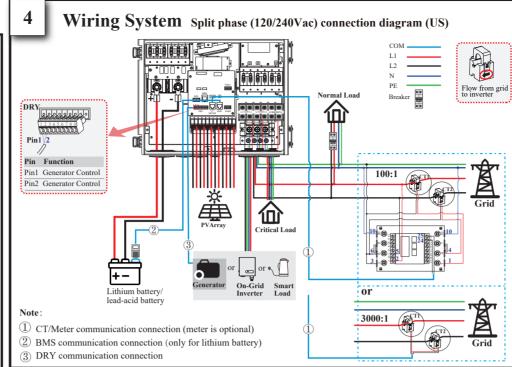


Ensure that the inverter and all cables to be installed have been completely powered off during the whole process of installation and connection. Otherwise, fatal injury could be caused by the high voltage

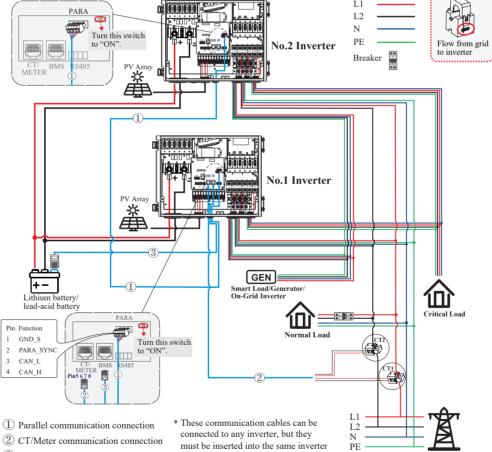
Install the inverter



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



5 **Wiring System** Split phase parallel connection mode-Scheme A (N=2)

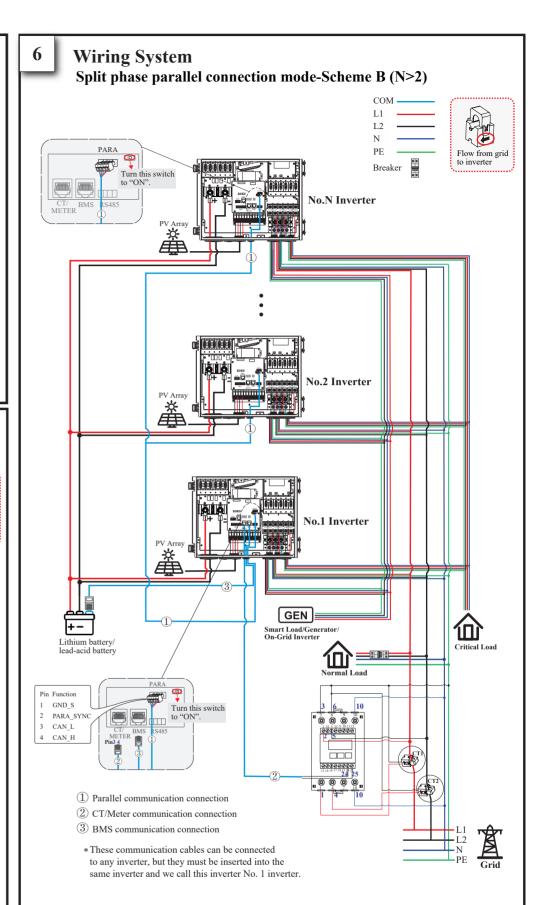


- (3) BMS communication connection

- 1. BMS communication connection is only for lithium battery.
- 2. It is necessary to turn the matched resistance switch of No. 1 inverter and No. 2 inverter to "ON" in parallel
- 3. With parallel connection mode, it is necessary to connect APP to one of the inverters and then go to Console Hybrid Setting> Other >Parallel mode to enable parallel mode on APP.



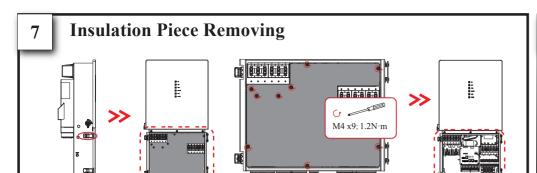
Ensure that the inverter and all cables to be installed have been completely powered off during the whole process of installation and connection. Otherwise, fatal injury could be caused by the high voltage.



- 1. BMS communication connection is only for lithium battery.
- 2. It is necessary to additionally purchase suitable CT and meter according to the specific requirements in parallel connection mode-Scheme B. Meter+CT Ratio is 100:1(optional).
- 3. It is necessary to turn the matched resistance switch of No. 1 inverter and No. N inverter to "ON" in
- 4. With parallel connection mode, it is necessary to connect APP to one of the inverters and then go to Console > Hybrid Setting > Other > Parallel mode to enable parallel mode on APP.

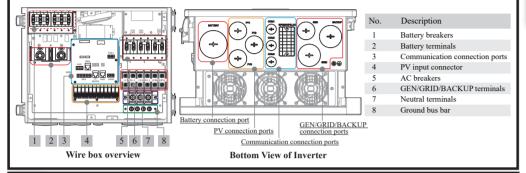


Ensure that the inverter and all cables to be installed have been completely powered off during the whole process of installation and connection. Otherwise, fatal injury could be caused by the high voltage.



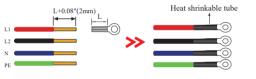
Connection Ports Overview

The connection instructions in 9-13 sections will be based on views here, please read them carefully.



GRID/BACKUP/GEN Connection

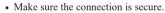
Before connecting the GRID/BACKUP/GEN terminal, ensure that both the AC terminal and the DC terminal are powered off and the PV switch is OFF. Otherwise there is a risk of high voltage shock.



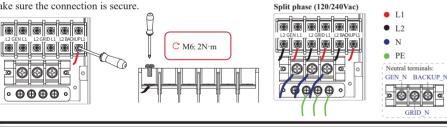
It is recommended to use outdoor dedicated cables.

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

- Thread the wires into wire box through corresponding GEN/GRID/BACKUP ports.
- According to the label on terminal blocks, fit wires' connectors in and tighten terminal screws.



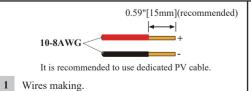
1 Wires making



PV Connection 10

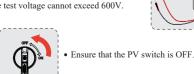
1. Photovoltaic arrays exposed to sunlight will generate dangerous voltages!

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.

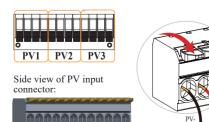


• Check correct polarity of wire connection from PV modules and PV input connectors.

The test voltage cannot exceed 600V



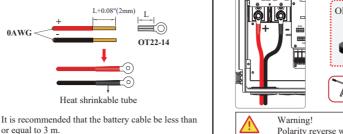
• Thread the wires into wire box through PV connection ports.



- · Open PV input connector switch.
- Insert positive pole (+) of connection wire into positive pole (+) of PV input connector.
- · Insert negative pole (-) of connection wire into negative
- pole(-) of PV input connector.Close the switch and ensure the wires are tightly fixed.

Battery Connection

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.



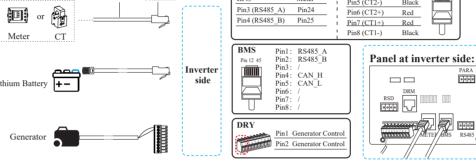
Wires making

M12 ~ 26N·m Polarity reverse will damage the inverter

Communication Cable(s) Connection (CT/Meter, BMS, DRY)

Pin5 (CT2-) Black

2 Wires connection



- Make the communication cables with an RJ45 connector/9-Pin terminal according to each Pin definition.
- · Insert these cables into corresponding communication ports according to panel at inverter side.

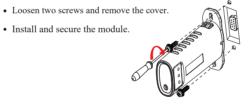
GPRS/WIFI/LAN Module Installation (Optional)

Note: the appearance of actual modules may be slightly different. The figures shown here are only for illustration. For details, please refer to the corresponding Module Installation Guide in the packing.



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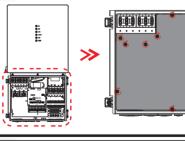
· Loosen two screws and remove the cover

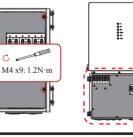


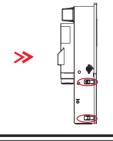
Proper strength to avoid 0.8N·m

Insulation Piece Installation

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







15 Startup/Shutdown Procedure



or parts left on the inverter.

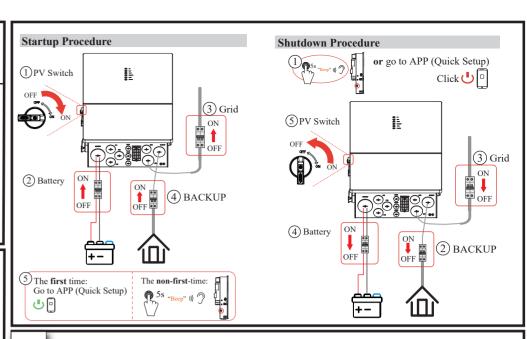
After the inverter is powered off, the remaining electricity and heat may still cause electric shock and body burns. If need to disconnect the inverter cables, please wait at least 10 minutes before touching these parts of inverter.

Inspection No. Items The inverter is firmly installed. 2 There is enough heat dissipation space, no external objects

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. All gaps at the cable inlet and outlet holes have been plugged with fireproof/waterproof materials, such as fireproof mud.
- 8 All safety labels and warning labels on the inverter are complete and without occlusion or alteration.



Quick Setup

A Preparation

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- 1. Download the App SolarHope for local settings.
- Scan the OR code on the inverter to download the App.
- Download the App from the App Store or Google Play.

1. The App SolarHope is only for local settings.

Detailed information about remote monitoring, please refer to corresponding WIFI User Manual.

- 2. The App should access some permissions such as the device's location. You need to grant all access rights in all pop-up windows when installing the App or setting your phone.
- 2. Power on the inverter.

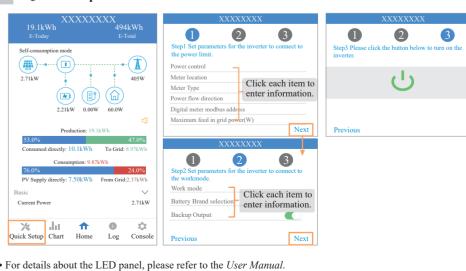
B Connecting the Inverter

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





Quick Setup



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