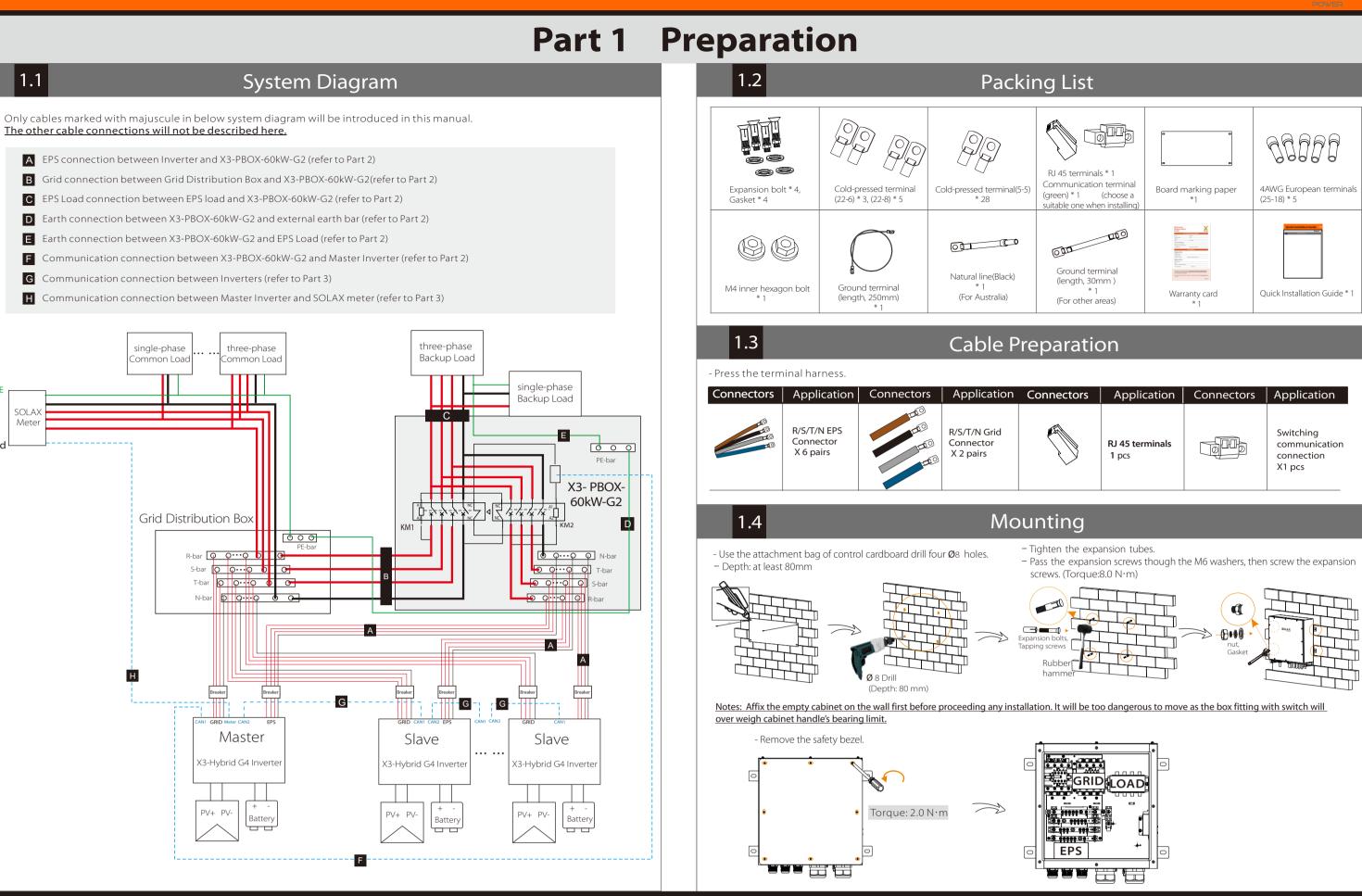
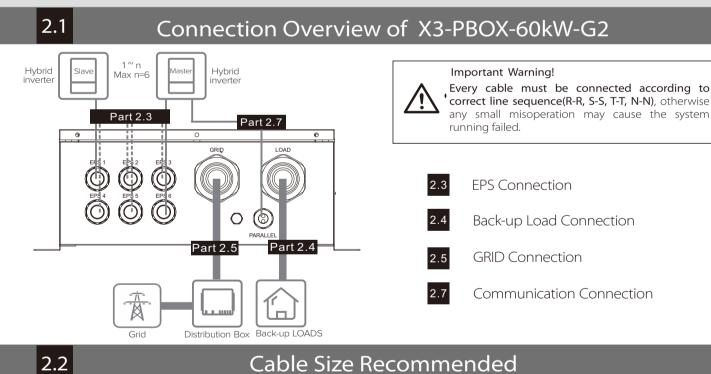
Quick Installation Guide _ for Parallel System





Part 2 Installation of X3-PBOX-60kW-G2



Cable Size Recommended

	R-cable, S-cable, T-cable, N-cable	6mm ² * <u>4 PCS for one EPS port</u>
EPS	Outer Diameter of EPS Cable	12. 5 -18 mm
	4 cables needed for one EPS port(one inverter) 8 cables needed for two EPS ports (two inverters paralleled)	
	24 cables needed for ten EPS ports maximummly (Six inverters paralleled)	
Back-up Load	R-cable, S-cable, T-cable, N-cable	25mm ² * 4 PCS
	Outer Diameter of LOAD Cable	18-44 mm.
	R-cable, S-cable, T-cable, N-cable	25mm ² * 4 PCS
	PE-cable	10mm ² * 1 PCS
Grid	Outer Diameter of GRID Cable	18-44mm
	Note: N bar connection in Australia is different from N bar connection in most countries.	
Communication	Communication cable	≥0.2mm ² * <u>2 PCS for one communiction port</u>
	Outer Diameter of Communication Cable	6-8 mm

2.3

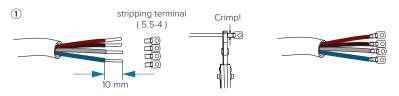
Gric

EPS Connection

Connection of X3-PBOX-60kW-G2 side

Make EPS cables

Remove 10mm insulation from cable ends, then Insert the stripping terminal. Press the terminal head with the blank holder.

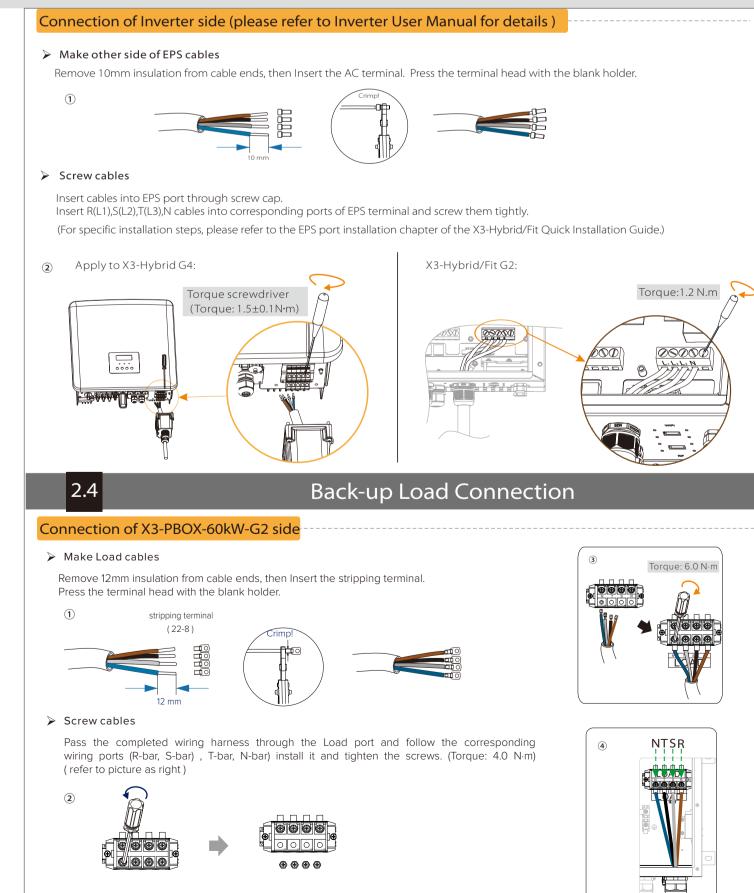


Screw cables

Torque:1.0 N.m

Screw cables through the EPS port on the bottom of the BOX to corresponding EPS ports (R-bar, S-bar, T-bar, N-bar, G-bar) by screwdriver. (refer to picture as right)

[-bai S-ba R-ba \bigcirc



Connection of back-up load side

Selecting appropriate Back-up loads

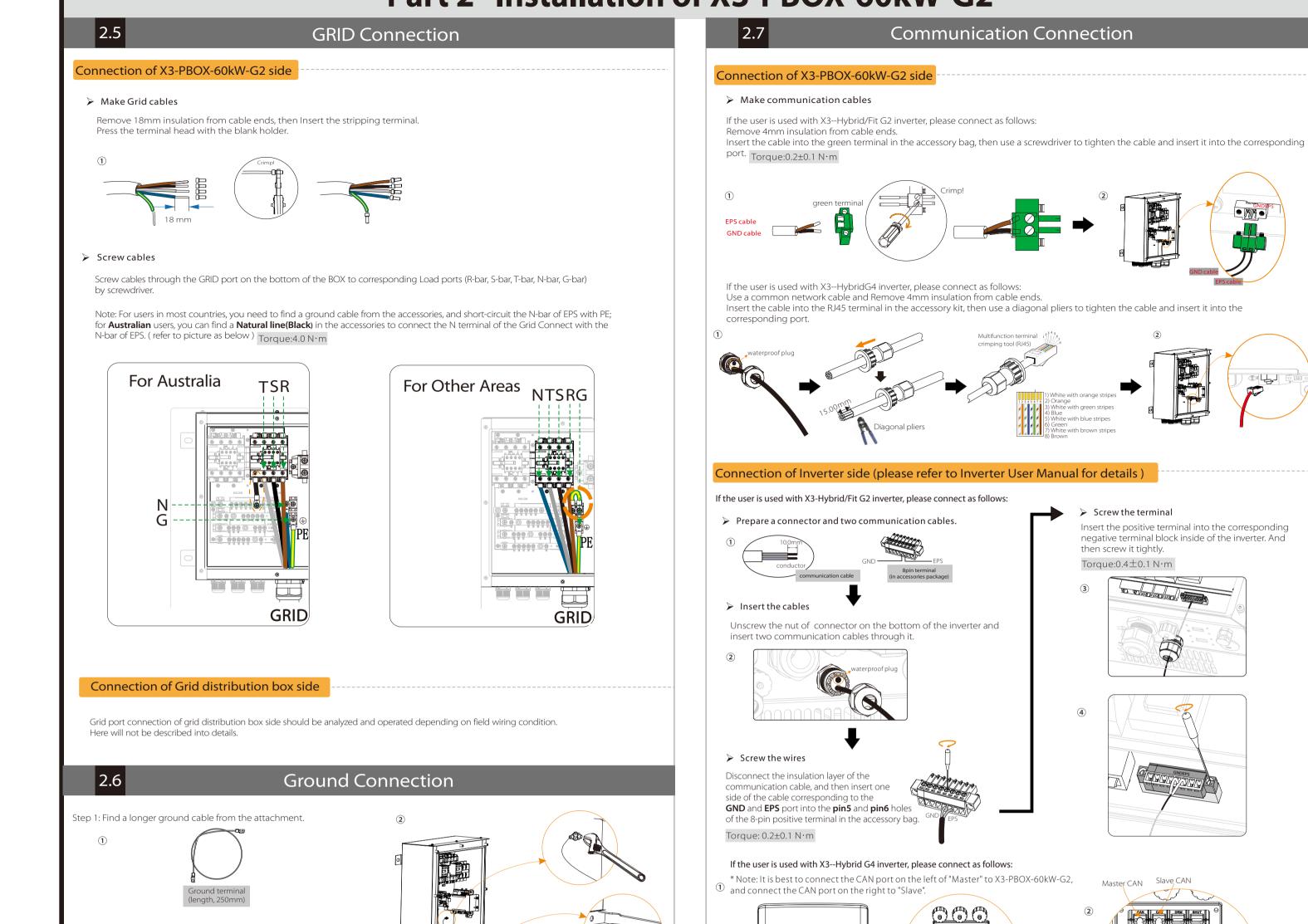
The requirement shown as below must be satisfied:

1: Algebraic apparent power of back-up loads must be less than Algebraic apparent power of hybrid system * 0.9.

2: Algebraic RCD apparent power of RCD back-up loads must be less than Algebraic apparent power of hybrid system * 0.6.

Back-up Load connection of loads side should be analyzed and operated depending on specific loads. Here will not be described into details.

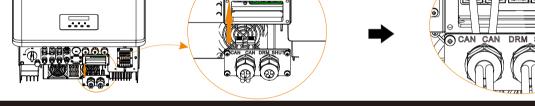
Part 2 Installation of X3-PBOX-60kW-G2



nal inside the cah and the ground terminal of the chassis, connect them with a ground cable, and tighten the screws.

Finally, install the upper cover of the machine and tighten the screws.





Part 3 Installation of Parallel System

> CAN-CAN connnection:

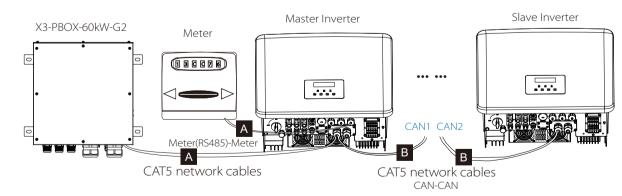
Insert one side of CAT5 cable into the first inverter's CAN port and the other side into the next inverter's CAN port.

RS485-Meter connection:

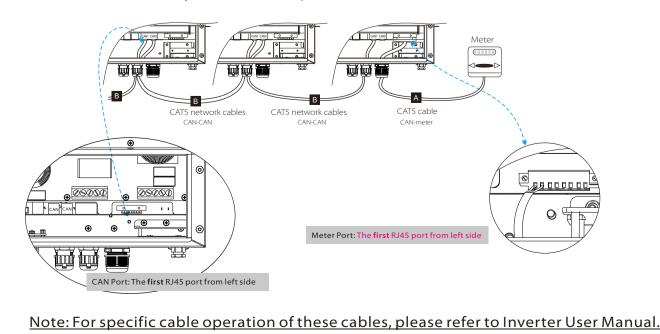
Insert one side of CAT5 cable into the RS485 port of meter, and the other side into the CAN 1 port of the first inverter or the CAN 2 port of the last inverter.

Please note the inverter connected with meter will be the Master Inverter and this Master inverter must be connected with battery.

If the user is used with X3--Hybrid G4 inverter, please connect as follows:



If the user is used with X3--Hybrid/Fit G2 inverter, please connect as follows:



Part 4 LCD Operation

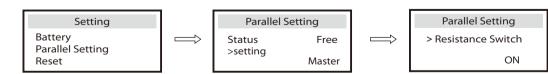
> There are three work modes in parallel system, and your acknowledge of different inverter's work modes will help you understand parallel system better, therefore please read it carefully before operating.

Free mode	Only if no one inverter is set as a "Master", all inverters are in free mode in the system.
Master mode	When one inverter is set as a "Master", this inverter enters master mode. Master mode can be changed to free mode.
Slave mode	Once one inverter is set as a "Master", all other inverters will enter slave mode automatically. slave mode can not be changed from other modes by LCD setting.

"Master Inverter" setting in LCD display

Find the inverter connected with the SolaX meter, then enter the setting page of the inverter LCD screen, click on the parallel settings, and select "master control"; then enter the "resistance switch" and set it to " ON"; Finally, find the last slave in the parallel system and enter the setting page of the inverter LCD screen and set the "resistance switch" to "ON".

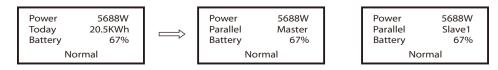
- If one inverter want to exit from this parallel system, please do the steps as below:
- step 1: Disconnect all the network cables on the CAN port.
- step 2: Disconnect all power cables (R/S/T/N/PE) connected to X3-PBOX-60kW-G2.
- step 3: Enter setting page and click parallel setting, and choose "Free".



Notes: Once this inverter is set as a "Master", all other inverters will enter "slave mode" automatically.

Main display:

Once inverter enters parallel system, the "today yield" will be replaced by "Inveter Class", and parallel relevant fault has a higher priority than other faults and will be showed firstly on main display.



Status display:

User can obtain all the status data from master inverter. System power and individual slave inverter power can be obtain in status display of master inverter.

