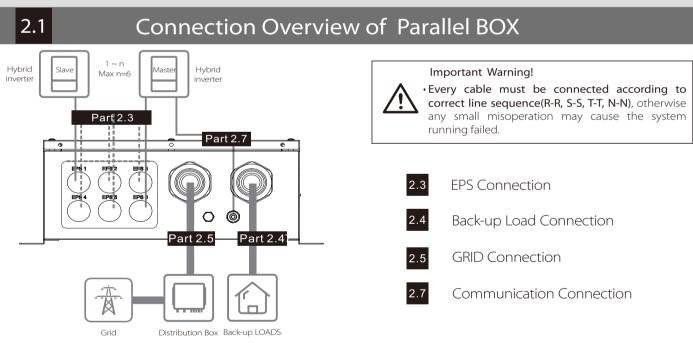
# **Quick Installation Guide** \_ for Parallel System



						SOLAX
	Part 1	Preparation				
1.1 System Diagram		1.2	Packir	ng List		
Only cables marked with majuscule in below system diagram will be introduced in this manual. For other cables connection, here will not be discribed.			Po			AAAA
<ul> <li>A EPS connection between Inverter and parallel box (refer to Part 2)</li> <li>B Grid connection between Grid Distribution Box and parallel box(refer to Part 2)</li> </ul>				RJ 45 terminals * 1 Communication terminal		999999
C EPS Load connection between EPS load and parallel box (refer to Part 2)		Expansion bolt * 4, Cold-pressed termi Gasket * 4 (22-6) * 3, (22-8) * 5	nal Cold-pressed terminal(5-5) * 28	(green) * 1 (choose a suitable one when installing)	narking paper4AW0*1(25-1)	'G European terminals 8) * 5
<ul> <li>Earth connection between parallel box and external earth bar (refer to Part 2)</li> <li>Earth connection between parallel box and EPS Load (refer to Part 2)</li> </ul>				CI 10		
<ul><li>F Communication connection between parallel box and Master Inverter (refer to Part 2)</li><li>G Communication connection between Inverters (refer to Part 3)</li></ul>			Natural line(Black)	Ground terminal		
<ul> <li>Communication connection between Master Inverter and SOLAX meter (refer to Part 3)</li> </ul>		M4 inner hexagon bolt Ground terminal * 1 (length, 250mm) * 1	* 1 ( (For Australia)	(length, 30mm ) * 1 (For other areas)		
		1.3	Cable Pre	eparation		
		- Press the terminal harness.				
		Connectors Application Conne	ctors Application C	onnectors Application	Connectors A	Application
		R/S/T/N EPS Connector X 6 pairs	R/S/T/N Grid Connector X 2 pairs			Switching communication connection
						X1 pcs
		1.4	Mou	nting		
		- Use the attachment bag of control cardboar – Depth: at least 80mm	-P	ighten the expansion tubes. ass the expansion screws though t crews. (Torque:8.0 N∙m)	ne M6 washers, then sc	crew the expansion
				Crews. (Torque:s.0 N-m)	$\bigcirc$	
				sion bolts		
				Rubber	nut, Gasket	
		Φ8 Drill (Depth: 8 Notes: Affix the empty cabinet on the wall firs		hammer	e as the box fitting with	a switch will
		over weigh cabinet handle's bearing limit. - Remove the safety bezel.	s service proceeding any installa	to the second dangerous to mov	e as the box niting with	
		- Remove the salety bezel.	0			
		• • Torque	:: 2.0 N·m			
			0			

## Part 2 Installation of Parallel BOX



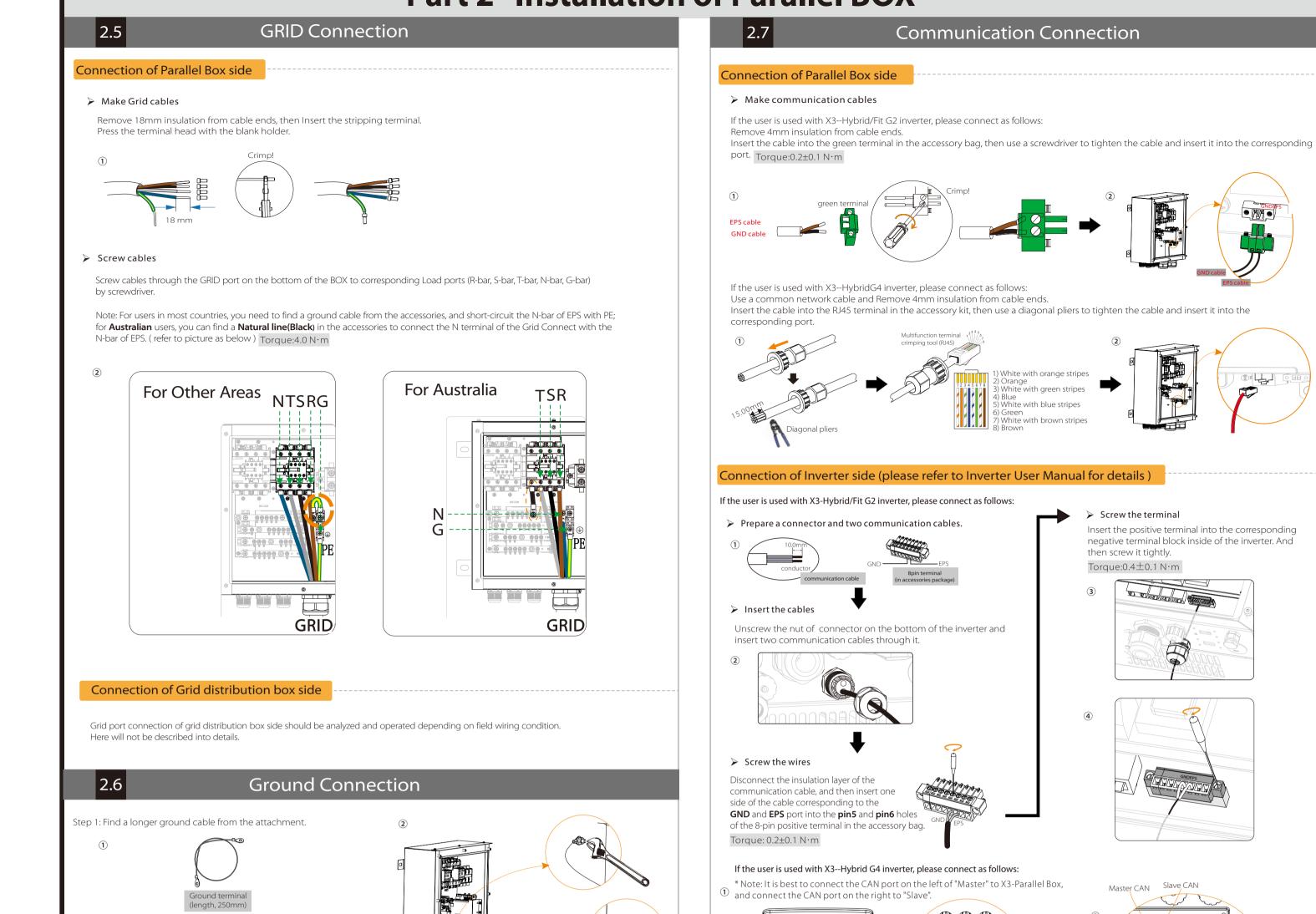
2.4

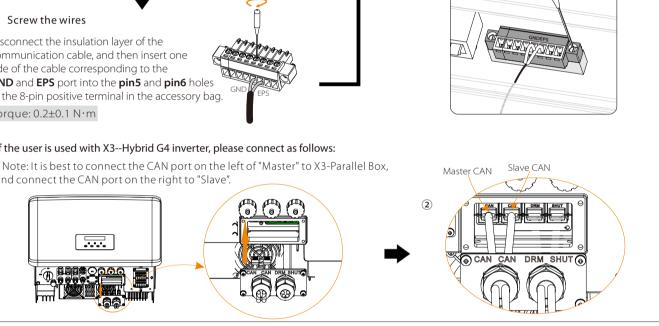
### Back-up Load Connection

### **EPS** Connection

2.3	EPS Connection

## **Part 2** Installation of Parallel BOX





al inside the cab 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 connection:

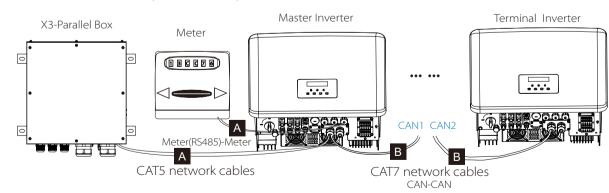
Insert one side of CAT7 cable into the first inverter's CAN port and the other side into the next inverter's CAN port.

#### RS485-Meter connection:

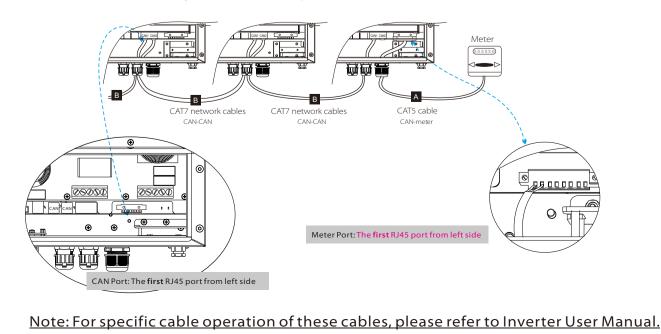
Insert one side of CAT5 cable into the RS485 port of meter, and the other side into the CAN 1 port of the first inverter or the CAN 2 port of the last inverter.

#### 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

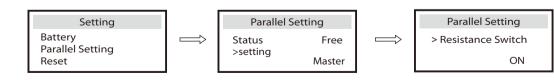
> There are three work modes in parallel system, and your acknowledge of different inverter's work modes will help you understand parallel system better, therefore please read it carefully before operating.

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".

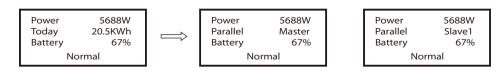
- If one inverter want to exit from this parallel system, please do the steps as below:
- step 1: Disconnect all the network cables on the CAN port.
- step 2: Disconnect all power cables (R/S/T/N/PE) connected to X3-Parallel Box.
- step 3: Enter setting page and click parallel setting, and choose "Free".



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

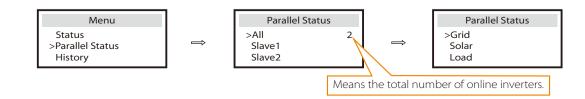
#### Main display:

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.



تها <sup>ال</sup>