

Quick Installation Guide

X3-Retro Fit 8kW-10kW







V



IV





Meter Connection

Meter Connection Diagram



1) Insert L1/L2/L3/N wires and RS485A/B cable into the meter. Please refer to the meter wiring diagram on side of the meter itself. 2) Insert the other end of the meter cable into the green terminal via meter port on the inverter. a. Unscrew the meter cable gland and insert the meter communication wire through the nut. 485A 485B b. Insert RS485A/B wires into the correct meter terminal c. Tighten both screws on the green terminal(Torgue: 0.4±0.1Nm) **Firmware Upgrading Preparation** Please ensure the inverter is powered on with steady DC and AC power. Battery must be kept ON throughout the whole upgrade procedure. Please prepare a PC and an U-Disk. Please also note that the U-Disk shall be less than 16GB and its format is not NTFS. Warning! Make sure the battery voltage is higher than 180V, otherwise it may cause serious failure or damage to the inverter during the upgrade. 1) Please contact SolaX service to get the latest firmware. Then add a new folder named "Update" in the root directory on your U-disk, and two more sub-folders named "ARM" and "DSP" under "Update". Please copy the firmware files into ARM and DSP respectively. It will be like: ["]update\ARM\618.00098.00_Hybrid_X3G3_Manager_VX.XX_XX-XX.usb"; update\DSP\618.00096.00_Hybrid_G3X3_Master_VX.XX_XX-XX.hex"; 2) Press and hold the "Enter" key for 5 seconds to enter Off Mode. Then unscrew the waterproof lid and insert the U-disk into the "upgrade" port. (}) U-disk 3) The LCD display on the inverter will be shown as below. Select ARM by the "OK" key. Wait for the update process to finish. Then repeat the same steps to update DSP. ====: Update(ARM) ====

=====: Update =====:: >ARM Updating-----25% DSP

4) After the upgrade is finished, the LCD will display "succeed" (only for DSP upgrades), please remember to pull off the U-disk, screw the waterproof lid and press the "Esc" to return to the Main interface. Then press the "Enter" key to exit Off Mode.

Earth Connection&Start Inverter VII



How to start the inverter



- Double check the inverter is well fixed on the wall.
- 2 Double check all the AC wirings in place.
- 3 Double check the meter is properly connected.
- 4 Make sure the battery BMS and DC power cables are well connected.
- **S** Make sure the external EPS contactor is well connected. (If applicable)
- **6** Turn on the AC isolator, battery switch and EPS isolator.
- Press and hold the "Enter" key for five seconds to exit Off Mode. Note: Off Mode is set by default.

Inverter will start up automatically when power from the battery is detected. Check the status of the LED indicator and the LCD screen. The first indicator with a inverter icon should be blue. On the LCD it will show "waiting" -> "checking" -> "Normal".

Monitoring Operation

SolaX provides two different ways of monitoring: WiFi(optional) and RS485

Startup Guide





5.Set work mode There are 4 work modes for your selection Self use/ Back up mode/ Feed in Priority/ Force Time Use		Parameter	Comment
		Self Use (default)	The power from the external generator in the home system will be used to supply the local loads first, followed by charging the battery. The redundant power will be exported to the public grid as set in Export Control. When there is no extra power generated, battery will start discharging for local loads usage, and Grid will supply power
Work Mode Mode Select > self use	de <	Back Up Mode	Battery will stop discharging to keep higher capacity when the grid is on. Only when the gird is off and the external generator is not supplying enough energy to meet home loads usage, will battery start to discharge to keep the emergency loads working normally. This work mode can be applied to areas where power outages
		Feed in Priority	The priority of the inverter output power is: Supply to the load \rightarrow Feedin to the Grid \rightarrow Charge the battery. This work mode can be applied to areas with high feed-in tariff.
Λ		Force Time Use	In this work mode the charging and discharging time can be set flexibly, and you can select whether to charge from the grid or not. And it will work in Self Use out of the two set force charging and discharging periods.

6.Set EPS system(For E Version only)

	X3-Retro Fit E version requires external EPS box for EPS connection.		
EPS system	- Mute is to set the warning alert for EPS mode.		
> Mute: No Frequency: 50Hz EPS auto restart	 "No" means EPS buzzing alert is enabled. "Yes" means EPS buzzing alert is disabled. Besides, if the buzzing noise is sharp, it means EPS output is overloaded Frequency can be set to 50 or 60Hz based on your load loads 		

WiFi (optional)

Via a Pocket WiFi (please purchase it from supplier if needed), the inverter data can be transmitted to SolaX Monitoring website.



WiFi Connection Steps:

Step1. Plug Pocket WiFi into "WiFi" port at the bottom of the inverter. Step 2: Connect to SolaX WiFi on your smart phone or PC, then config the router wifi name and password on this web page: 5.8.8.8

Step 3: Create an user account on https://www.solaxcloud.com



COM

COM communication interface, which can be upgraded to man-machine communication interface. Output voltage, current, frequency, fault information and other operational information can be transferred to PC or other monitoring equipment through these interfaces.

Application Occasion

COM is one standard communication interface which can transmit the real data from inverter to PC or other monitoring equipments.

COM PIN Definition

Communication interface bewteen inverter and router is RS485 with a RJ45 connector.



COM Connection Steps:

Please refer to BMS connection steps (for user manual page 32) for COM connection. Please kindly noted the PIN definition and port position will be slightly different.





RS485 Port