Quick Installation Guide
X3-Hybrid 5kW-10kW

I. Packing List
- Inverter X1
- Bracket X1
- Expansion tubes X6
- Expansion screws X6
- DC connectors (positive X3, negative X3)
- Ring terminal X2
- Grounding nut X1
- Set screw for mounting X2
- Meter X1
- WiFi module (optional) X1
- Quick installation guide X2
- Smart Plug (optional) X1
- Warranty card X1
- User manual X1
- Battery connectors
- EPS connection steps: Refer to table 2
- Battery connection diagram

II. Mounting Steps
1. Mark position of six holes, drill holes with a 5/16 drill. Depth at least 40mm.
2. Tighten the expansion tubes, screw the expansion screws.
3. Aim the upper side of the inverter to the top small hook of the bracket.
4. Screw the set screw on the right top of inverter tightly.
5. If necessary, customer can install an anti-shed lock on the right top of the inverter.
6. Mounting the brackets.

III. PV and AC Connection
1. AC connection steps:
   a. HV wire connection
   b. Other wire connection

IV. EPS Connection (for E Version)
1. EPS connection steps:
   a. For AU/NZ
   b. For Other Countries

V. Battery Connection (optional)
1. Battery connection steps:
   a. Power Connection Steps:
   b. Communication Connection Steps

Note: The battery communication can only work when the battery BMS is compatible with the inverter.

Table: Cable and Microbreaker recommended
<table>
<thead>
<tr>
<th>Model</th>
<th>Voltage</th>
<th>Ampere</th>
<th>DC breaker</th>
<th>Nominal voltage of DC breaker</th>
</tr>
</thead>
<tbody>
<tr>
<td>Model</td>
<td>220V</td>
<td>35A</td>
<td>35A</td>
<td>35A</td>
</tr>
<tr>
<td>Model</td>
<td>220V</td>
<td>50A</td>
<td>50A</td>
<td>50A</td>
</tr>
<tr>
<td>Model</td>
<td>220V</td>
<td>70A</td>
<td>70A</td>
<td>70A</td>
</tr>
</tbody>
</table>

For other countries, please install an external switch.
**Firmware Upgrading**

**Preparation**
- Please ensure the inverter is steadily powered on. Inverter must connect PV panels and keep the battery on through whole procedure of upgrading. Please prepare an U-disk.

**Warning!**
- Make sure the inverter input power is more than 180V to separate the upgrade on a sunny day, otherwise it may result in serious failing during upgrading.

1. Please contact our service support to get the update file, and nest it into your U-disk as following (Don’t modify the file name):
   - Upgrade
dsp
dsp_update
   - Update\DSP\Hybrid_G3X3_Master.hex
2. Turn off the on-site switch, AC breaker and EPS breaker. Then unscrew the waterproof lid and insert U-disk into the upgrade as below.
3. Turn on DC switch, the LCD will shown as the picture. Then choose the one that you want to upgrade.

**Start Guide**

1. Set language
2. Set date time
3. Set the safety standard
4. Export control
5. Set work mode
6. Set EPS system (for E Version only)
7. Set relay control (The function is being developed)

**Monitoring Operation**

WiFi(optinal)
- Inverter provides a WiFi port which can collect data from inverter and transmit it to monitoring website via a Pocket WiFi.
- Solax provides two ways for users to choose: WiFi(optinal) and Ethernet(LAN)
- WiFi(optinal)
  - Create an user account online. (Please check the Pocket WiFi user manual for more details)
  - Plug Pocket WiFi into “WiFi” port at the bottom of the inverter.
  - Build the connection between the inverter and route.
  - Enter an user account online. (Please check the Pocket WiFi user manual for more details)

Ethernet(LAN)
- LAN/DRM Port
  - Communication interface bewteen inverter and router is RS485 with a U-disk connection.
  - The function of a LAN/DRM Port is to connect to the monitoring website and transmit the data to the website.

**Earth Connection&Start Inverter**

**Start Inverter**

1. Check the inverter is fixed well on the wall.
2. Make sure all the DC wirings and AC wirings are completed.
3. Make sure the meter is connected well.
4. Make sure the battery is connected well.
5. Make sure the external EPS contactor is connected well. (if needed)
6. Turn on the DC switch at the bottom of the inverter to “ON” position.
7. Turn on the external DC and external AC switch.

Inverter will start up automatically when the PV panels generate enough energy or the battery is discharging.

Check the status of indicators and LCD screen. The left indicator should be blue and the indicator screen should display the main interface.