Step 2. SOP of Battery Connection With EM Inverter

1. BYD

For BYD B-100Z.5/5-7.5/10kW-box 13.8 with EM Hybrid Inverter

A. Make sure that the inverter and the battery pack is turned off before connecting the battery pack to the inverter (Refer to Pic. 1).

B. To connect the cables coming from the inverter to the BYD battery pack, take the following steps:
   - Connect the power cables to the terminal blocks of BYD battery pack.
   - Connect the negative cable to “-” and the positive cable to “+”.

C. (a) Cut off the plastic skin of the cable.
   (b) Pull the cable through the terminal cover plate.
   (c) Plug the metal part into the battery A-type terminal (2S-4) which in Goodwe accessories box, then crimp the terminal firmly.
   (d) Connect the power cable to the terminal blocks of the hybrid inverter and mount the inverter terminal cover plate. (Refer to Pic. 3)

D. The communication cable for battery is attached on the inverter (Refer to Pic. 4). Please use this cable as battery communication cable.

E. The other side of “To Battery” cable should be connected to CAN port of BYD BMU box (Pic. 5).

F. On PV Master should choose the right battery type used in your system by “Battery Mode” selection (Pic. 6) or battery communication will fail.

G. After all connection and settings done, please check if battery communication is OK on PV Master—Parameter BMS Status, which should be "Communication OK" (Pic. 7).
2. GCL

For GCL 5.6 KWH / 5.6 KWH2 / 5.6 KWH3 / 5.6 KWH4 with EM Hybrid Inverter:

![Image of GCL setup](image1.png)

- Make sure that the inverter and the battery pack is turned off before connecting the battery pack to the inverter. (Refer to Pic 1)
- Note: If connect multi batteries (max 4 pieces), please refer to battery user manual to do configuration on batteries.

**Pic 1**

- Cut off the plastic skin of the cable.
- Put the cable through the terminal cover plate.
- Plug the metal part into the battery R-type terminal (25-8) in GotoWise accessory box, then clamp the terminal tightly.
- Connect the power cable to the terminal block of the hybrid inverter and restore the inverter terminal cover plate. (Refer to Pic 3)

**Pic 2**

- The communication cable for battery is attached on the inverter. (Refer to Pic 4)
- Please use this cable as battery communication cable.

**Pic 3**

- On PV Master, should choose the right battery type used in your system by "Battery Mode" selection (Pic 8) or battery communication will fail.

**Pic 4**

- After all connections and settings done, please check if battery communication is OK on PV Master ——Plant—— BMS Status, which should be "Communication OK" (Pic 7)

**Pic 5**

- There are three DIP switches and three rotary switches on battery, which should be set as below. (Refer to Pic 7)

**Pic 6**

3. LG

For LG 3.3/4.5/5.10 with EM Hybrid Inverter:

![Image of LG setup](image2.png)

- Remove the top cover, hold both sides of the top cover and pull it upwards. (Refer to Pic 2)

**Pic 1**

- Connect the power cables to the terminal block through the grommet (Refer to Pic 3)
  1. Remove the terminal cover plate, which is placed over the terminal block.
  2. Plug the metal part into the battery R-type terminal (25-8) which in Cable Accessories for LG Battery, then clamp the terminal tightly.
  3. Restore the battery terminal cover plate.

**Pic 2**

- The other side of "To Battery" cable should be connected CAN port on the top side of LG battery. (Refer to Pic 6)

**Pic 3**

- The communication cable for battery is attached on the inverter. (Refer to Pic 8)
- Please use this cable as battery communication cable.

**Pic 4**

- On PV Master, should choose the right battery type used in your system by "Battery Mode" selection (Pic 8) or battery communication will fail.

**Pic 5**

- After all connections and settings done, please check if battery communication is OK on PV Master ——Plant—— BMS Status, which should be "Communication OK" (Pic 7)

**Pic 6**
Step 3. Wi-Fi Configuration Instruction

Note: Wi-Fi Configuration could also be done on PV Master APP, for details, please download “PV Master Operation Introduction” from www.goodwe.com

A. Preparation

1. Power Wi-Fi inverter (or Power on Inverter) on.
2. Power router on.

B. Connect to ‘Solar-WIFI’

1. Wi-Fi name: ‘Solar-WIFI’ (‘P’ means the last 8 characters of inverter serial NO.)
2. Browses website: 10.10.100.253

C. Click ‘Setup’

Please select your current wireless network

- AP name
- Channel
- Signal
- Quality

D. Please select a wireless network

- AP name
- Channel
- Signal
- Quality

Add wireless network manually:

- AP name
- Channel
- Signal
- Quality

Please enter the wireless network password:

- AP name
- Channel
- Signal
- Quality

E. Troubleshooting

<table>
<thead>
<tr>
<th>No.</th>
<th>Problem</th>
<th>Checking Items</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Cannot find Solar Wi-Fi signal</td>
<td>1. Make sure inverter is powered on; 2. Move your smart device closer to inverter; 3. Restart router.</td>
</tr>
<tr>
<td>3</td>
<td>Cannot login website</td>
<td>1. Make sure the password is correct; 2. Restart router.</td>
</tr>
<tr>
<td>4</td>
<td>Cannot find router</td>
<td>1. Move router closer to inverter or use a Wi-Fi relocator device.</td>
</tr>
</tbody>
</table>

G. After all connection and settings done, check if battery communication is OK on PV Master ——— Purchase ——— BMS Status, which should be "Communication OK" (Pic. 7)