3.2 Inverter Overview

- For easy maintenance, we suggest to install the inverter at eye level.
- In order to achieve optimal performance, the ambient temperature should be lower than 45℃.

3.1 Mounting instructions

- Keep away from sunlight
- Keep dry
- Keep it clear of snow
- Sun
- Rain

4. CT or DRED or Remote Shutdown

5. Do not connect the positive or negative poles of the PV string to the PE wire. Not following this instruction may cause damage to the inverter.

4.3 DC Side Connection

- The PE line of the inverter should be connected to earth. Make sure the impedance of neutral wire and earth wire is less than 10Ω.
- The PV modules should have as a minimum an IEC61730 class A rating protection.

4.4 Wi-Fi

- The Wi-Fi communication function is only available with Wi-Fi BOX. For detailed configuration instructions please refer to the Wi-Fi Configuration on the accessory box. Once configured, please refer to the mounting manual and avoid using Wi-Fi Functions on the system.

5. Earth Fault Alarm

In conjunction with the 220 VCT of GW2000-XS, GW2500-XS, GW3000-XS, GW700-XS, GW1000-XS, GW1500-XS, an earth fault alarm is generated. The alarm works as follows: As the earth fault current flows to the inverter, the buzzer in the inverter will keep ringing until the alarm is resetted. (Termination is only available in Australia and New Zealand.)

5.1 Technical Parameters

- **Input Voltage**: 150~250V
- **Input Frequency**: 50/60Hz
- **Output Voltage**: 220/230V
- **Output Frequency**: 50/60Hz
- **Nominal Output Power**: 2000~2500W
- **Max. Output Power**: 2200~2500W
- **Power Factor**: 0.975
- **Efficiency**: 97.2%
- **Voltage Regulation**: ±0.5%
- **Overload Capacity**: 140%
- **Protection Degree**: IP65
- **Pollution Degree**: 2

- **Outdoor**: the ambient air temperature ranges from -20~50℃. The relative humidity ranges from 5% to 95%. Category PD3.
- **Indoor unconditioned**: the ambient air temperature ranges from -20~50 ℃. The relative humidity range is 5% to 95%. Category PD3.

- **Grid Regulation**: EN50438(PL), VDE4105, G98, AS/NZ S4777.2, CEI 0-21, UTE 15-712-1
- **Certifications & Standards**: VDE0126-1-1
- **Network Interface**: 1x LAN/Wi-Fi
- **Communication**: Integrated
- **Protection Degree**: IP65
- **Overvoltage category definition**:
  - Class I: applies to equipment connected to circuits where transient overvoltages can be expected;
  - Class II: applies to equipment not permanently connected to the installation. Examples are appliances, portable tools and other plug-connected equipment;
  - Class III: applies to fixed equipment downstream, including the main distribution board. Examples are switchgear and other equipment in an industrial installation;

- **Max. Output Apparent Power (VA)**: 11000
- **Start-up Voltage (V)**: 50~450
- **Over Current Protection**: ≤4000A
- **Over Voltage Protection**: ≤3%
- **Input Reverse Polarity Protection**: ≤3%
- **Output Power Factor**: 97.0%
- **Output Over Current Protection**: 97.5%

- **AC SPD Protection**: 50/60Hz
- **Input Reverse Polarity Protection**: 50/60Hz
- **Output Power Factor**: 97.0%
- **Output Over Current Protection**: 97.5%

- **AC SPD Protection**: 50/60Hz
- **Input Reverse Polarity Protection**: 50/60Hz
- **Output Power Factor**: 97.0%
- **Output Over Current Protection**: 97.5%

- **AC SPD Protection**: 50/60Hz
- **Input Reverse Polarity Protection**: 50/60Hz
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- **AC SPD Protection**: 50/60Hz
- **Input Reverse Polarity Protection**: 50/60Hz
- **Output Power Factor**: 97.0%
- **Output Over Current Protection**: 97.5%
6 Inverter Installation

6.1 Select installation location

Please make the following points when determining a suitable location:

- Electricians or engineer should install inverter in a suitable location.
- Inverters are recommended installed in low temperature and away from heat and flammable environment.


6.2 Mounting procedure

1. Use the wall-mount bracket as a template and drill holes with 10mm in diameter and 80 mm in depth on the wall.

2. Fix the wall-mount bracket on the wall with the expansion bolts in the accessories bag.

3. Mount the inverter onto the wall-mount bracket.

6.3 DC connection

Table 1. Specification

<table>
<thead>
<tr>
<th>Pin</th>
<th>Description</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>CT+</td>
<td>15k</td>
</tr>
<tr>
<td>2</td>
<td>CT-</td>
<td>15k</td>
</tr>
<tr>
<td>3</td>
<td>Function</td>
<td>CT+DRED</td>
</tr>
<tr>
<td>4</td>
<td>Function</td>
<td>CT-</td>
</tr>
</tbody>
</table>

6.4 Wi-Fi connection

For Wi-Fi connection, only applicable to Wi-Fi version inverter and Wi-Fi communication module is required. Please refer to Wi-Fi Configuration in the accessory box for detailed information.

6.5 Earth wire connection

An earth wire terminal is set on the right side of the inverter. Earth wire should be connected to the terminal.

6.6 Connection of export power limit, DRED & emergency shutdown functions

- The connectors (2 pin) in the accessory box are in short circuit with special wire attached. To activate export power limit function, please remove the wire and connect CT+ to the connector. To activate emergency shutdown function, please connect it to the connector.
- The connector (2 pin) is allocated for connection of export power limit function. Please refer to Figure 6.7-1 for CT wiring and to Table 1 in Figure 6.7-2 for connector connection. CT+(with black wire) is for CT connection. CT- (with white wire) is for activation pin.
- Note: Please access to http://www.goodwe.com/downloadcenter.html or scan the QR code to download the full version of this user manual.