

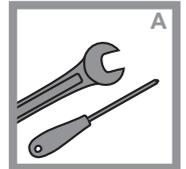


**SAMIL POWER**

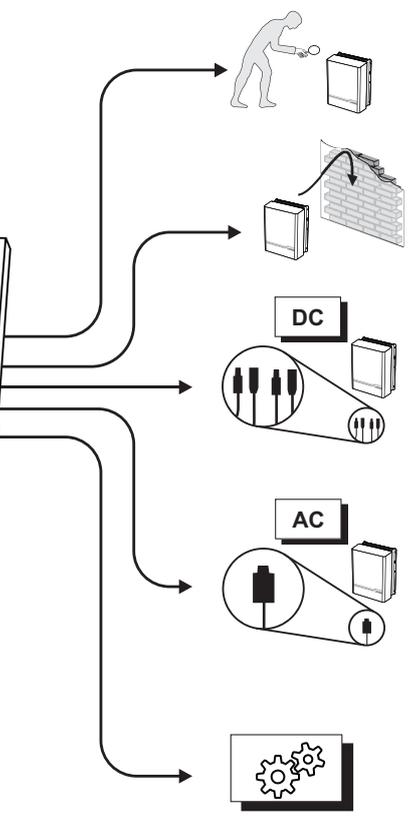
Expert for PV Grid-tied Inverters



**SolarRiver 4500TL-G3**  
**SolarRiver 5300TL-G3**  
**SolarRiver 5600TL-G3**  
**SolarRiver 6000TL-G3**







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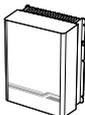


**SolarRiver 4500TL-G3**  
Max. DC-Power 4500 W  
Max. AC-Power 4000 VA



**SolarRiver 5300TL-G3**  
Max. DC-Power 5300 W  
Max. AC-Power 4600/4950/5000 VA

\* For Germany, the Max. AC-Power is 4600VA  
\* For Australia, the Max. AC-Power is 4950VA



**SolarRiver 5600TL-G3**  
Max. DC-Power 5600 W  
Max. AC-Power 5300 VA



**SolarRiver 6000TL-G3**  
Max. DC-Power 6000 W  
Max. AC-Power 5750 VA

## About this Installation Guide

EN

This installation guide describes the safe installation of the inverters listed on the left.

**Target group:**  
Qualified technicians

**Manufacturer:**  
No.6, Xuefengshan Road,  
Suqian High-tech Industrial  
Development Zone,  
Jiangsu Province, P.R.China. 223800

**Terms:**

Installer

Supplier

Inverter

Qualified technician  
in charge of the  
installation  
Company the product  
was purchased from  
PV inverter described  
in this installation guide

## 关于本安装指南

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本安装指南旨在介绍左侧所列逆变器的安全安装程序。

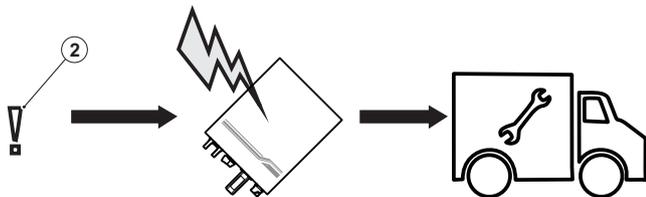
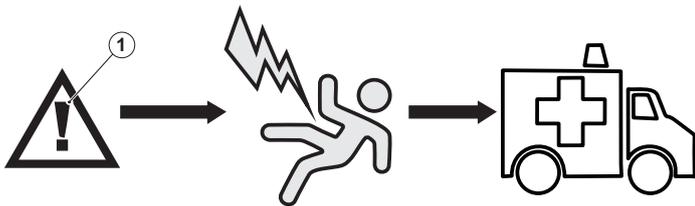
目标用户群：  
合格的技术人员。

生产商信息：  
中国江苏省宿迁高新技术产业开发区  
雪峰山路6号 223800

安装条件：  
安装师

供应商  
逆变器

由合格的技术人员负责  
安装  
此产品的被采购方  
本安装指南所描述的光  
伏逆变器



## Safety Symbols

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**Life threatening voltages are processed inside the inverter.**  
Hazardous situations that can lead to death or serious injuries are indicated with the “WARNING” symbol (1) on the left.  
Hazardous situations that can result in damage of the inverter are indicated with the “CAUTION” symbol (2) on the left.

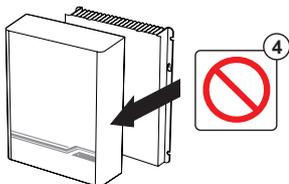
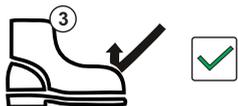
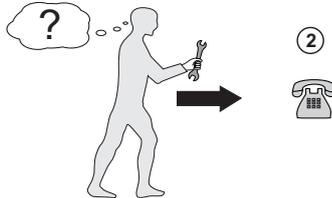
Countermeasures that must be taken in order to avoid the hazardous situation are indicated with an arrow:  
➔ “This is an example how to avoid a hazardous situation.”

## 安装图标说明

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该逆变器内部存在危险电压  
左侧“警告 (WARNING)”标志 (1)  
) ,用于警示潜在的危险情形, 若不避免, 可能会导致人员死亡或严重的人身伤害。  
左侧“注意 (CAUTION)”标志 (2)  
) 旨在说明可以导致逆变器破损的危险情况。

为了避免危险情况, 请务必按照箭头图标所示的方法进行处理。  
➔ “此例说明如何避免危险情况”



## General Safety Requirements

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- 1. WARNING! Danger of electric shock!**  
→ Read Installation Guide carefully. Follow all instructions.
- 2. Contact your supplier when you have questions.**
- 3. Wear safety shoes when lifting and transporting.**

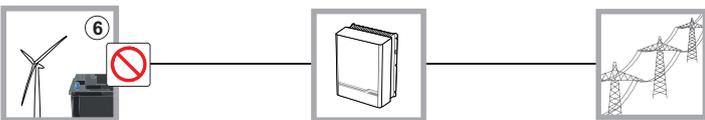
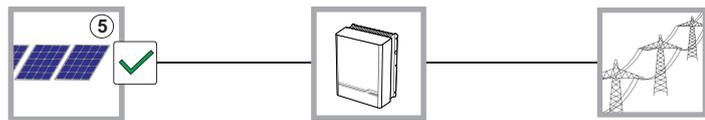
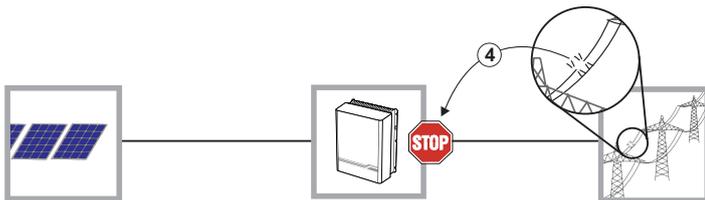
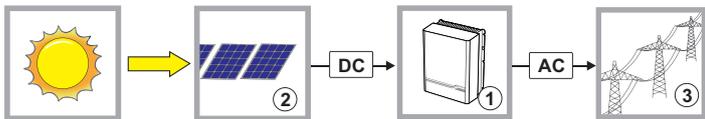
- 4. Disassembling the inverter is forbidden.**  
**WARNING! Danger of electric shock and fire!**  
→ Never modify the inverter unless explicitly instructed to do so by the manufacturer.  
Keep this installation guide near the inverter!

## 一般安全要求

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- 1. 警告！存在触电危险！**  
→ 请仔细阅读《安装指南》。请遵守所有指示。
- 2. 如有疑问时，请联系您的供应商。**
- 3. 进行吊装或搬运操作时，请穿戴安全鞋。**

- 4. 禁止拆卸逆变器。**  
**警告！存在触电危险！**  
→ 除非制造商明确要求，否则切勿擅自更改逆变器的内部元器件。  
请将此安装指南存放在逆变器附近！



## Intended Use

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The inverter (1) converts DC-power from the PV-generator (2) to AC-power. The AC-power is fed into the grid (3). In case of a grid failure: The inverter automatically disconnects (4) from the grid. The inverter automatically reconnects when the grid is restored. The inverter can only be used for DC-power from PV-generators (5).

### CAUTION! Risk of damaging the inverter!

→ Do not connect other DC-power sources (6) such as wind power systems, hydroelectric generators, fuel cells or batteries.

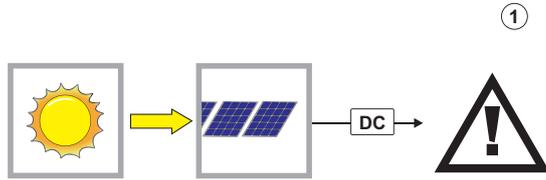
## 设计用途

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光伏并网逆变器 (1) 是将光伏电池组件 (2) 生产的直流电转换为交流电并馈入电网中 (3)。如果发生电网故障: 逆变器将自动从电网断开 (4)。电网恢复正常时, 逆变器将自动重连。该逆变器仅能用于转换来自光伏组件 (5) 的直流电。

注意! 逆变器可能被损坏!

→ 不要连接其他直流电源 (6), 例如: 风力发电系统、水力发电机、燃料电池或电池组。



## Electrical Safety

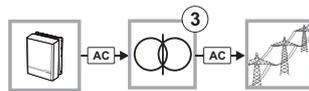
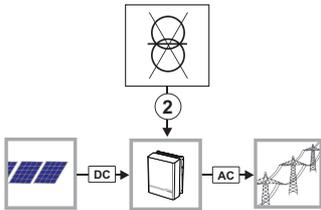
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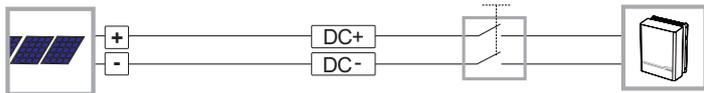
1. **WARNING! Risk of electric shock!** The PV-panels emit a dangerous DC-voltage when exposed to sunlight.
2. The inverter is not equipped with an internal isolation transformer
3. Local regulations and standards can require that an isolation transformer is additionally installed. Contact your utility operator if you have questions.

## 电气安全

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1. 警告！当心触电！光伏组件在阳光下产生的电压可能会造成危险。
2. 该逆变器并未配置隔离变压器。
3. 地方法规和标准可能要求额外安装一个隔离变压器。如有疑问，请联系当地电力公司。





## System Connection-DC

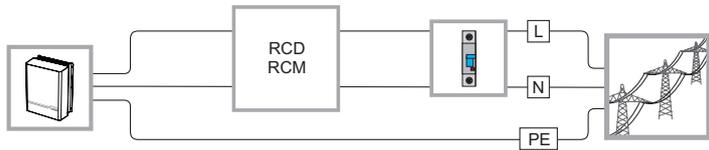
EN

1. Measure the open circuit voltage of the PV strings by using a multimeter and confirm that it is less than the maximum input voltage of the inverter.
2. Confirm that the short circuit current of the PV strings is less than the maximum input current of the inverter.
3. Fix a manual DC breaker between the PV modules and the inverter. ( $U_r \geq 600V_{dc}, I_r \geq 40A$ )
4. Keep the DC breaker disconnect at all the connecting time.
5. Choose an appropriate breaker according to the DC input specification of the inverter.

## 系统连接——DC端连接

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1. 使用万用表测量并确认PV组串的开路电压小于逆变器最大输入电压
2. 确保PV组串短路电流小于逆变器最大输入电流
3. 请在组件与逆变器之间安装一台手动直流断路器。( $U_r \geq 600V_{dc}, I_r \geq 40A$ )
4. 在接线过程中，请确保直流断路器是断开的。
5. 根据逆变器直流输入范围选择合适的断路器。



## System Connection-AC

EN

1. Confirm that the voltage and frequency of the public grid is within the range of permissible voltage and frequency by using a multimeter.
2. Fix a manual AC breaker between the public grid and the inverter. If there are many inverters, you must fix breakers for each one. ( $U_r=230V_{ac}, I_r \geq 40A$ )
3. Keep the AC breaker disconnect at all the connecting time.
4. Choose an appropriate breaker according to the AC output specification of the inverter.
5. The inverter is equipped with an integrated RCMU Type B (tested according to EN 62109-2 / IEC 60755). If local regulations and standards require an external RCD/RCM, a RCD/RCM Type A is sufficient.
6. In Australia/New Zealand the inverter must be installed in accordance with AS/NZS 5033.

## 系统连接——AC端连接

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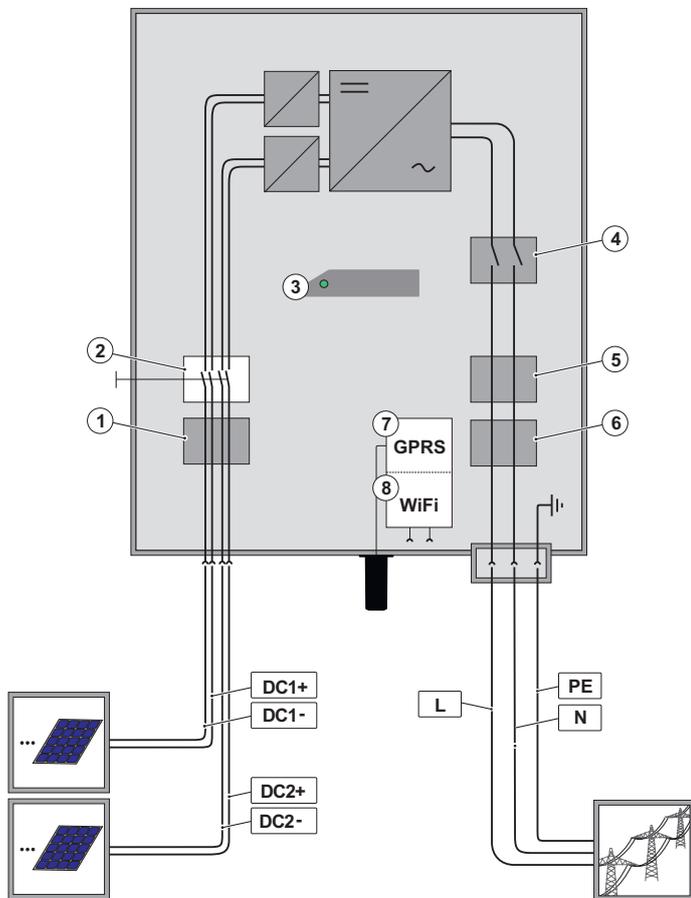
1. 使用电表测量并确认电网电压值和电网频率值是在逆变器正常工作允许的范围内
2. 请在逆变器与公共电网之间安装一台手动交流断路器。如果系统安装多台逆变器，请在每台逆变器交流侧安装一个交流断路器。（ $U_r=230V_{ac}, I_r \geq 40A$ ）
3. 在接线过程中，请确保交流断路器是断开的。
4. 根据逆变器交流输出范围选择合适的断路器
5. 该逆变器配备有一个集成B型综合漏电流监测单元（RCMU TypeB）（已按照EN62109-2/IEC60755的要求完成测试）。如果当地法规和标准要求外装一个RCD（剩余电流保护器）/RCM（剩余电流检测器），则安装一个A型RCD（剩余电流保护器）/RCM（剩余电流检测器）即可。
6. 针对澳洲和新西兰市场：请按照AS/NZS 5033标准要求安装逆变器

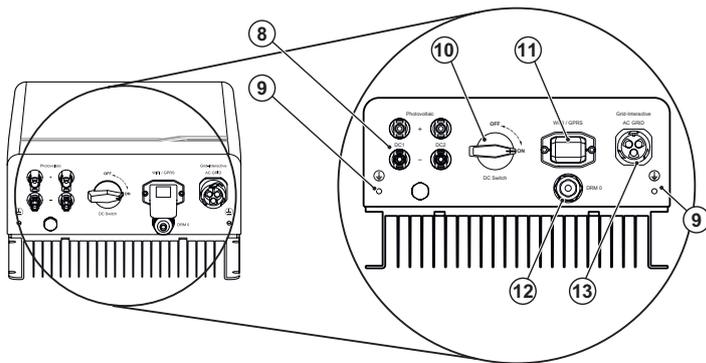
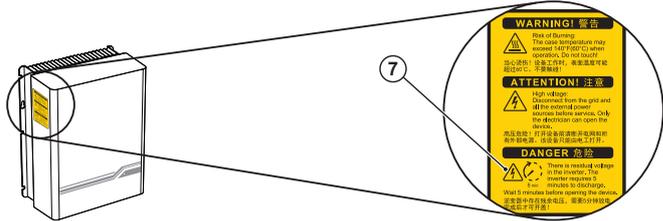
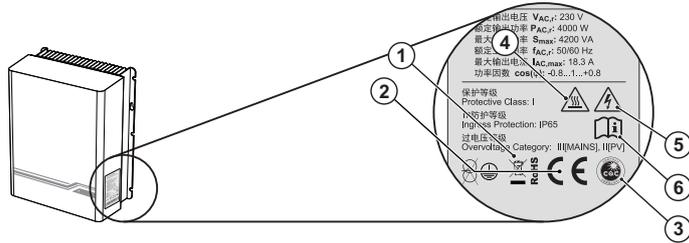
## Inverter Function

1. DC-side insulation monitoring
  2. DC-side disconnection switch
  3. Status LEDs
  4. AC-side disconnection relay
  5. Grid monitoring
  6. AC-side surge voltage protection
  7. GPRS
  8. WiFi
- Note: The inverter is equipped with either WiFi or GPRS communication

## 逆变器功能

1. 直流侧绝缘阻抗监测
  2. 直流开关
  3. LED状态指示灯
  4. 交流侧脱网继电器
  5. 电网监测
  6. 交流侧浪涌保护
  7. GPRS
  8. WiFi
- 注：本逆变器的通信接口为WiFi或GPRS可选。





## Labels and Markings on the Inverter

### Type Label:

#### General Symbols

1. WEEE-mark
  2. CE-mark
  3. CQC-mark
- #### Safety Symbols
4. Warning: Hot Surfaces!
  5. Warning: Dangerous voltage!
  6. Read documentation!
  7. Wait for 5 Minutes before opening!

### Bottom of Inverter:

8. DC connection area
  9. PE-connections
  10. DC-Switch
  11. WIFI/GPRS module
  12. DRM 0
  13. AC-plug
- #### Periodic Inspection:
- Check if all markings and safety symbols are clearly visible on the inverter. Replace if necessary.

## 标签标识

### 铭牌图标说明:

#### 通用图标

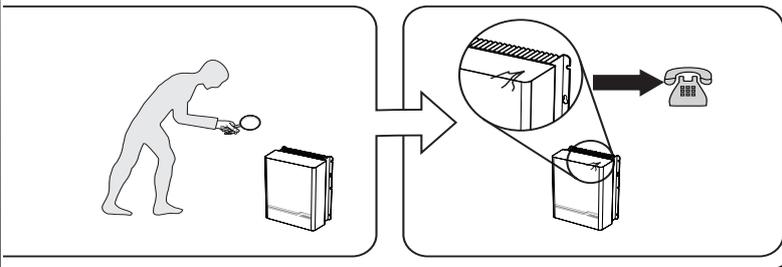
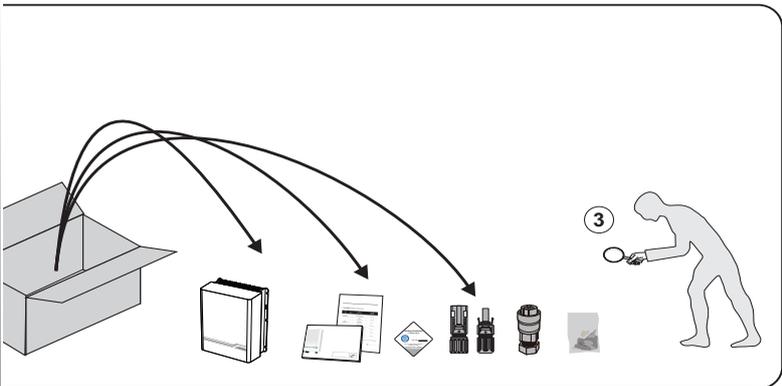
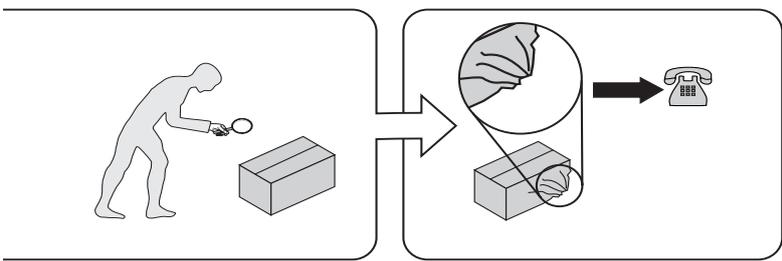
1. 欧盟WEEE标识
2. CE认证标识
3. CQC认证标识

#### 安全图标说明

4. 警告: 过热标识!
5. 警告: 高电压危险标识!
6. 参看相关指导说明!
7. 延时放电标识。逆变器中存在残余电压, 需要5分钟放电完成后才能开盖!

### 逆变器底部标识:

8. 直流输入即插端子
  9. PE-地线
  10. DC开关
  11. WIFI/GPRS通讯模块
  12. DRM 0
  13. 交流防水端子
- 定期检查:  
检查所有标志、标识是否清晰可见。  
如有必要, 请及时更换。



## Unpacking

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### Proceed as follows:

1. Check the packaging for damages.
2. Contact your supplier in case packaging is damaged.
3. Unpack the inverter. Check if all items of the packing list are included. The scope of delivery is listed on the following page
4. Check all items for visible damages.
5. Contact your supplier when items are missing or the inverter is damaged. Do not install a damaged inverter.

Keep packaging for later use.

## 开箱

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### 具体步骤如下所示:

1. 检查包装是否破损。
2. 如果包装破损，请及时联系你的供应商。
3. 开箱取出逆变器，对照装箱单，检查配件是否齐全。
4. 检查配件是否存在明显损坏。
5. 如果配件不全或者逆变器破损，请及时联系你的供应商。切勿安装已破损的逆变器。

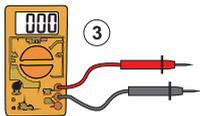
请保存包装箱，以便日后使用。



①



②



③



⑧



④



⑤



⑥



⑦

## Required Tools

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The following tools are required for the installation of the inverter:

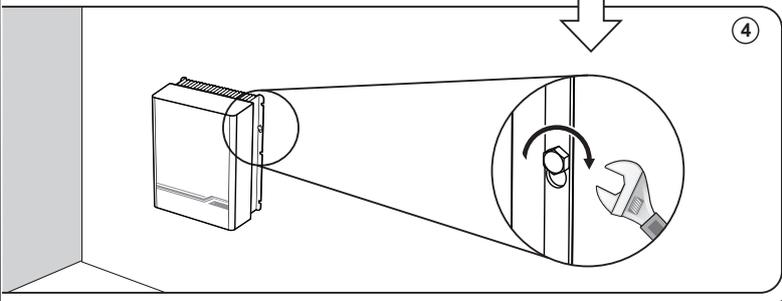
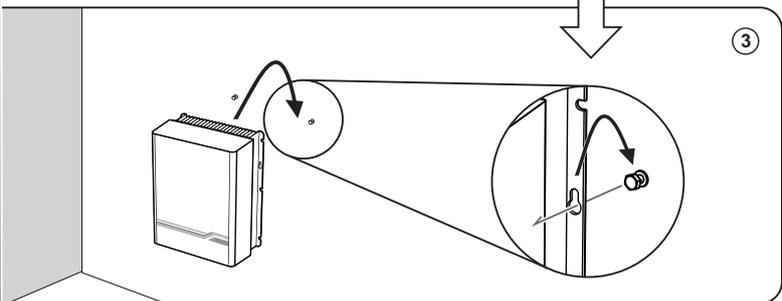
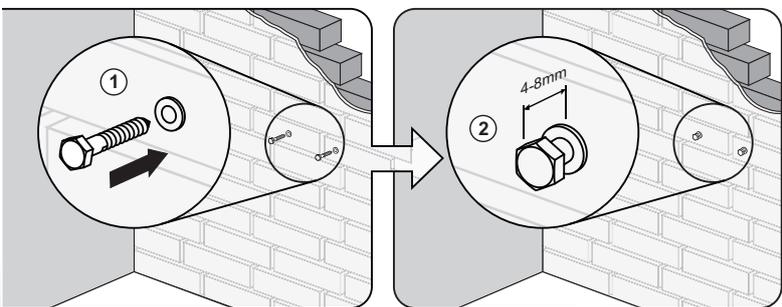
1. Cable stripping tool for cables (e.g. PV-AZM)
2. Drill
3. Multimeter
4. Pencil
5. Screwdriver
6. Spanner
7. Hammer
8. Level

## 安装工具

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安装逆变器需要使用以下工具：

1. 剥线钳（例如：PV-AZM型）
2. 冲击钻
3. 万用表
4. 铅笔
5. 螺丝刀
6. 扳手
7. 铁锤
8. 水平仪



## Mounting the Inverter

EN

**Note! Ensure the mounting place is strong enough to hold the weight of the inverter.**

3. Hang the inverter on the screw.
4. Tighten the bolts to ensure that the inverter is securely fastened..

**Proceed as follows:**

1. Drilling two horizontal holes on the wall with a diameter of 8mm aiguille.
2. Assemble expansion bolts, screw exposed wall 4-8mm.

## 安装逆变器

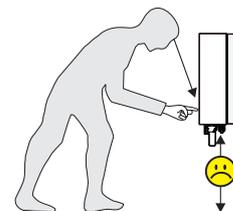
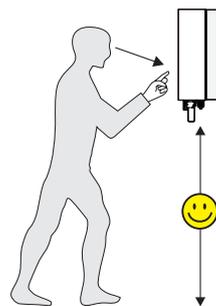
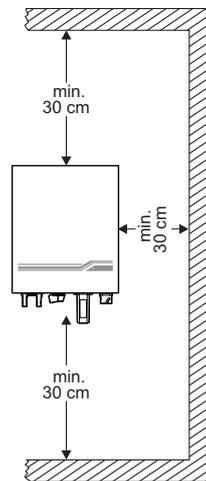
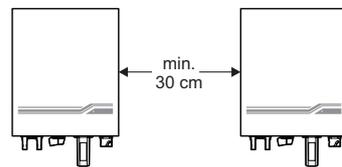
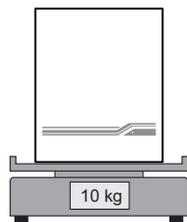
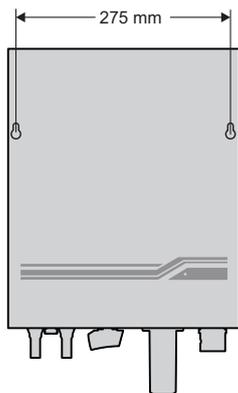
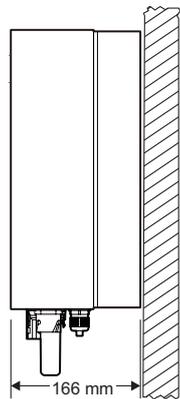
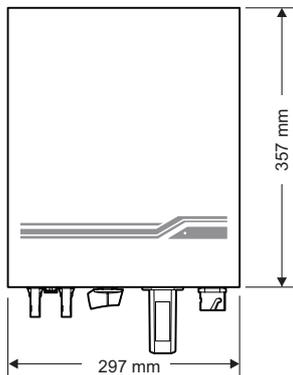
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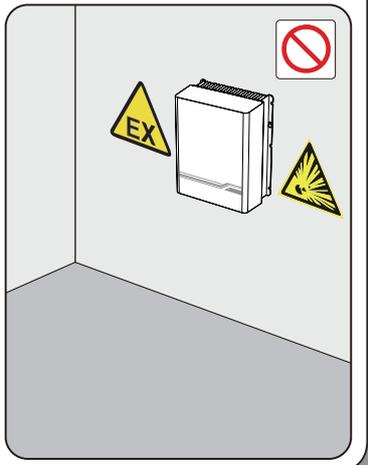
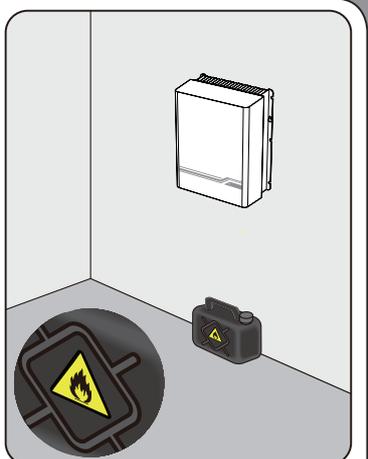
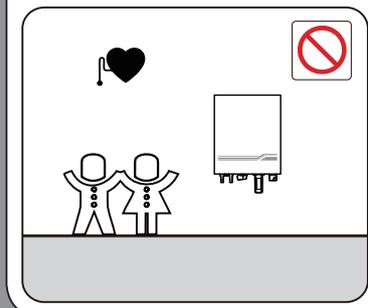
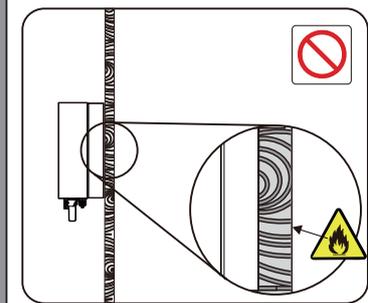
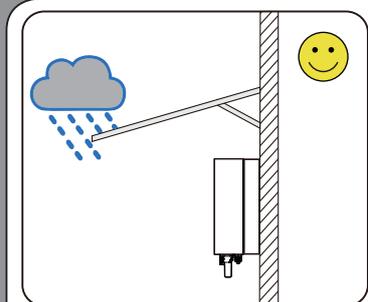
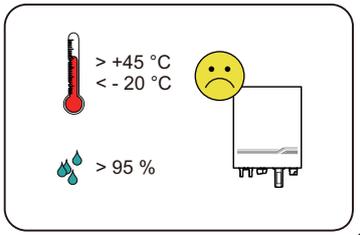
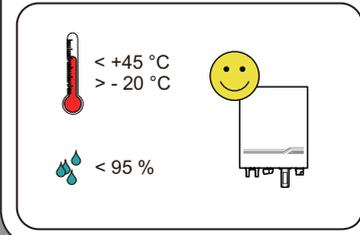
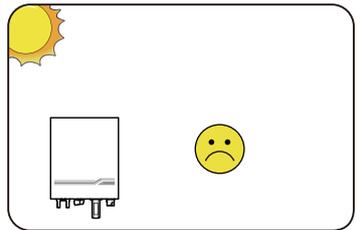
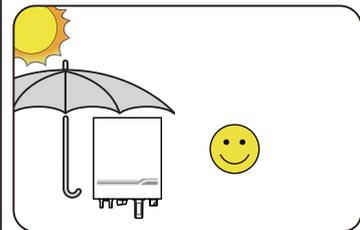
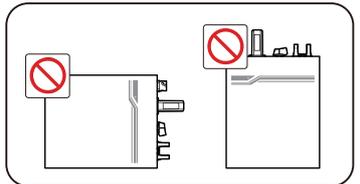
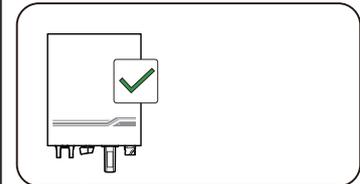
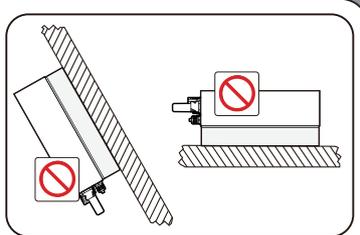
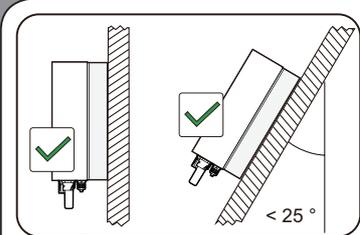
**注意！请确保安装逆变器的墙体能够承受逆变器的重量。**

3. 将逆变器挂在螺杆上。
4. 将螺栓拧紧，保证逆变器固定牢靠。

具体步骤如下所示：

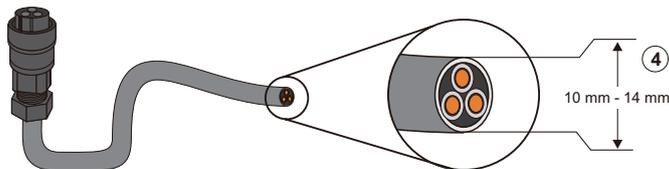
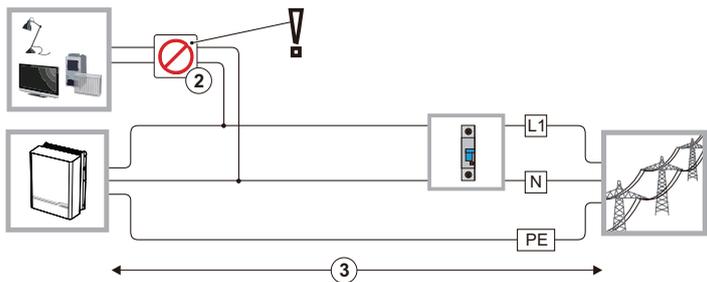
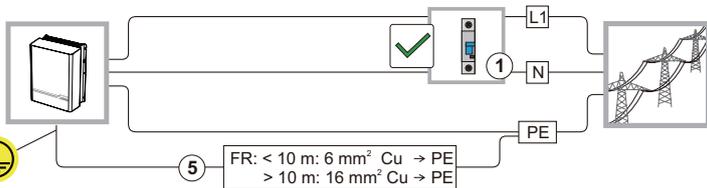
1. 用直径8mm的钻头在墙体上钻两孔，两孔水平。
2. 装配膨胀螺栓，螺杆露出墙体4-8mm。





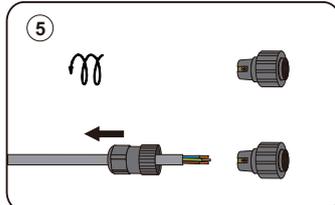
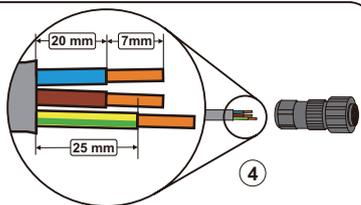
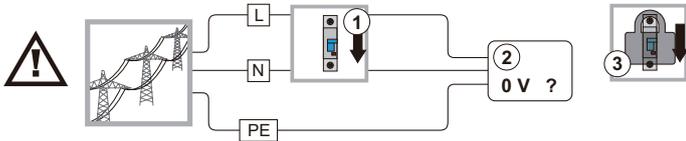
## AC-Connection - Requirements

1. Use suitable circuit breaker.
2. **WARNING! Risk of fire!**  
→ Do not connect any consumers to the AC-line.
3. Recommendation: Keep cable losses below 1%. Keep impedance below 0.2 Ohm.
4. Observe values for wire sizes.
5. **In France: Use a PE-connection with a minimum cross section of 6 or 16 mm<sup>2</sup> Cu.**

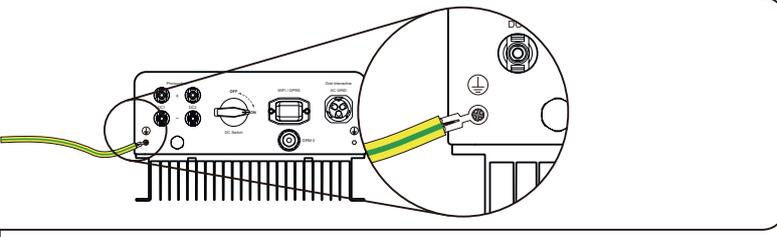
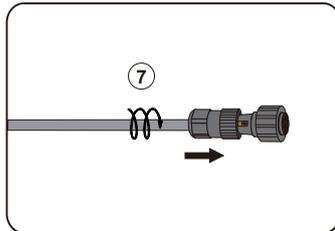


## 交流接线要求

1. 使用合适的断路器。
2. 警告！存在火灾危险！  
→ 切勿在交流输出端并联任何负载。
3. 建议：确保电缆上的功率损耗小于额定功率的1%。确保交流电网阻抗小于0.2欧姆。
4. 注意选择合适的电线尺寸。
5. 针对法国市场：接地线PE需要单独使用不小于6mm<sup>2</sup>的铜线。



⑥  $M = 0.8 - 1.5 N \cdot m$



## Connection of the AC Cable

EN

### WARNING! Risk of electric shock!

→ Deactivate AC-voltage when connecting the AC-cable.

→ Cable specification: 12AWG

### Proceed as follows:

1. Disconnect voltage.
2. Check that no voltage is present.
3. Prevent accidental reconnection
4. Strip cable as specified in the illustration.
5. Remove swivel nut and shove swivel nut over cable.

6. Attach wires to AC-terminal.  
Green-yellow wire --> PE(Ground);  
Blue wire --> N(Neutral);  
Brown wire --> L(Line).
7. Push plug into sleeve. Tighten swivel nut.
8. **In France: Use an additional PE-connection with a minimum cross section of 6 - 16 mm<sup>2</sup> Cu.**

## 交流线缆的连接

ZH

警告！存在触电危险！

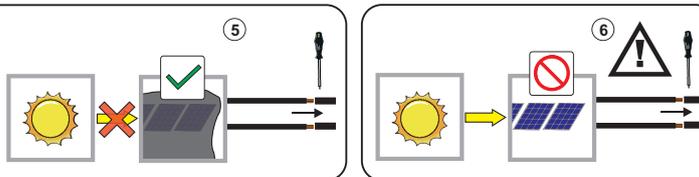
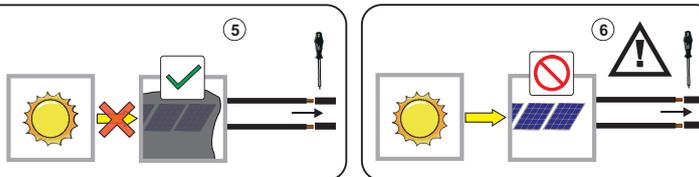
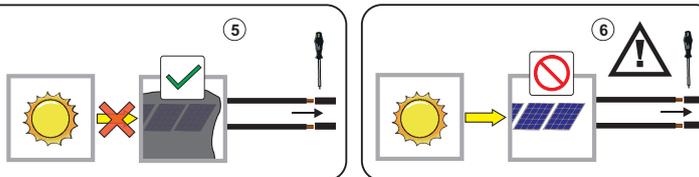
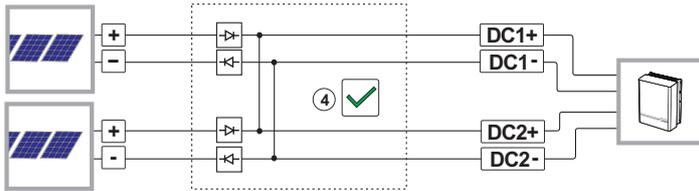
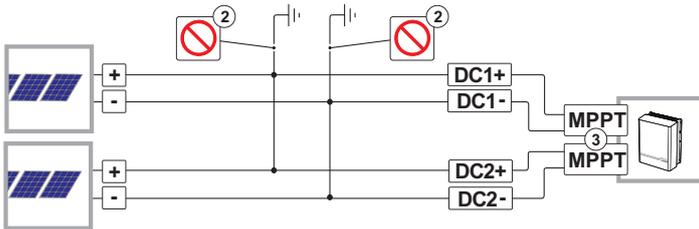
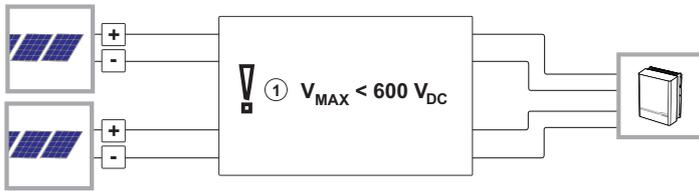
→ 当接交流侧电线时，断开交流电压。

→ 请使用线径12AWG的电缆。

具体步骤如下所示：

1. 断开交流电源。
2. 确认交流电源已经断开。
3. 防止出现意外送电情况。
4. 按照图示剥线。
5. 松开防水端子，将交流输出线穿过防水端子。

6. 将电线锁入AC端子台：  
黄绿电缆线 --> PE孔；  
蓝色电缆线 --> N孔；  
棕色电缆线 --> L孔。
7. 将端子推进护套，拧紧防水端子。
8. 针对法国市场：接地线PE需要单独使用不小于6mm<sup>2</sup>的铜线。



## DC-Connection - Requirements

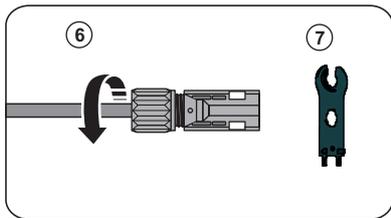
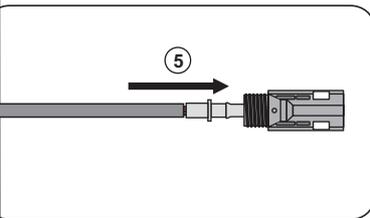
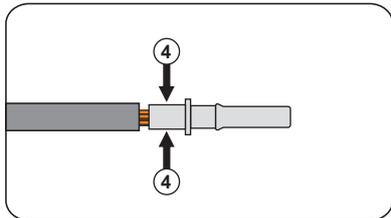
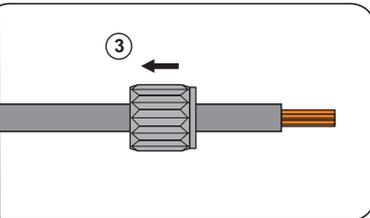
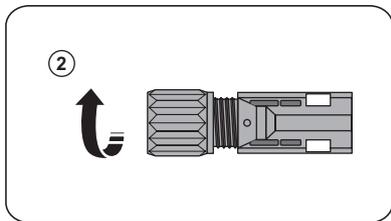
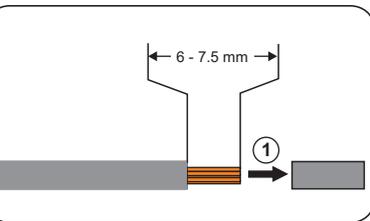
EN

- CAUTION! Risk of damaging the inverter!**  
→ Ensure that the voltage and current is below the specified values.
- Do not connect the + or - poles to ground.
- The inverter is equipped with two separate MPP-trackers.
- The DC-ports can be connected: Install diodes in order to avoid reverse currents.
- Cover PV-modules when working on the DC-connection.
- WARNING! Risk of electric shock!**  
→ Do not work on the DC-cables when the PV-modules are not covered.

## 直流接线要求

ZH

- 注意！逆变器可能被损坏！  
→ 确保电压和电流在规格范围内
- 不要将+极或-极“接地”
- 逆变器具备两路独立MPP追踪功能
- 直流端子可连接：为防止电流反灌，可在DC输入端子前端安装二极管。
- 安装直流电缆时，请将组件遮住
- 警告！存在触电危险！  
→ 在进行电气连接之前，务必采用不透光材料将光伏电池板覆盖。暴露于阳光，光伏阵列将会产生危险电压。



## PV Connection (PV Plugs)

EN

### WARNING! Risk of electric shock!

- ➔ The distance between inverter and PV modules needs less than 30 meters.
- ➔ Cable specification: 12AWG
- ➔ Cover PV-modules when working on the connection cables.
- ➔ Use multimeter to measure PV module array voltage.

### Proceed as follows:

1. Strip cable.
2. Unscrew plug.

3. Put swivel nut on cable.
4. Crimp cable on plug contact.
5. Insert plug contact in plug. Pull on contact in order to check that the contact is locked in the plug.
6. Screw swivel nut on plug.
7. Tighten swivel nut on plug with spanner kit.
8. Label all plugs.

## 直流输入即插端子接线

ZH

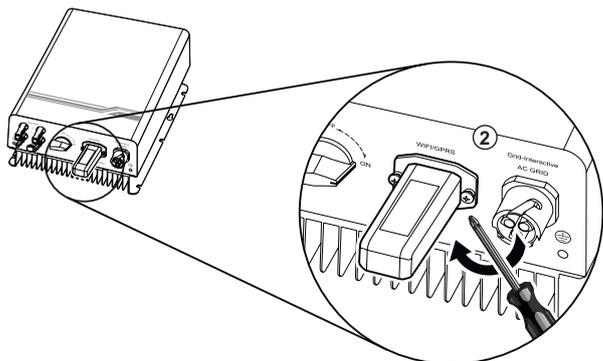
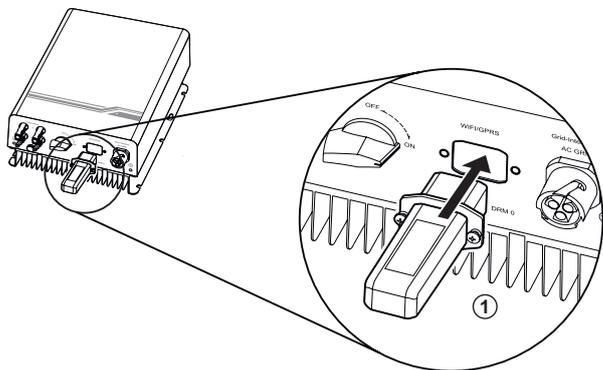
### 警告! 存在触电危险!

- ➔ 逆变器与光伏组件之间安装距离不超过30米。
- ➔ 请使用线径12AWG的电缆。
- ➔ 输入端接线时, 请遮住光伏组件。
- ➔ 请使用万用表检查光伏组件阵列的正负极性。

### 具体步骤如下所示:

1. 剥线。
2. 旋开密封套。

3. 将电缆穿过电缆密封套。
4. 利用压线钳将电缆压入金属端子。
5. 将金属端子插入塑料外壳中装好后往外轻拉线缆, 以确保金属端子和塑料外壳已经锁紧。
6. 旋紧密封套。
7. 使用扳手拧紧密封套。
8. 使用标签来标识每一路即插端子。



## Connection of the WiFi/GPRS Monitoring Module EN

### WARNING! Risk of electric shock!

→ Do not connect the Photovoltaic modules or AC Grid.

1. Insert the WiFi/GPRS module into the corresponding connector at the bottom of the inverter.
2. Tighten up the screws. Ensure that the WiFi/GPRS module and inverter are connected securely.

## WiFi/GPRS监控模块的连接

ZH

警告！存在触电危险！

→ 请断开逆变器直流侧和交流侧电源。

1. 将WiFi/GPRS模块插入逆变器底部对应接口。
2. 拧紧螺丝，确保WiFi/GPRS模块和逆变器之间可靠连接。

## Starting the Inverter

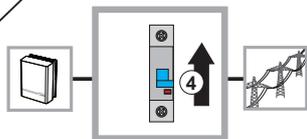
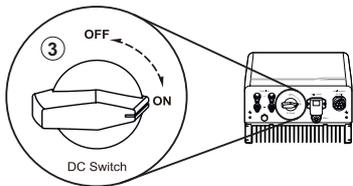
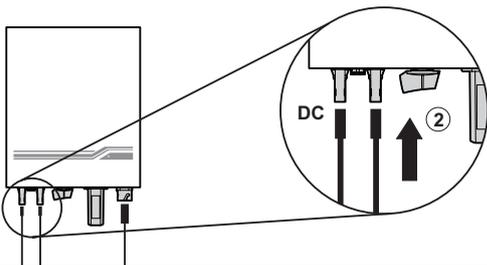
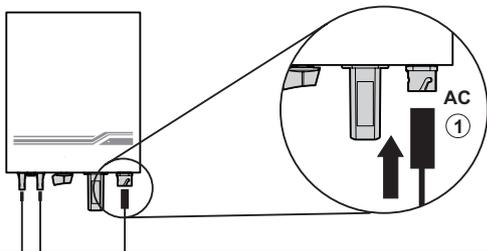
### Before starting:

- Make sure DC-switch is "OFF".
- Make sure AC-switch is "OFF".
- Make sure DC plugs are connected.

### Proceed as follows for starting:

1. Connect AC-plug.
2. Connect DC-plugs.
3. Turn DC-switch to "ON".
4. Activate AC-power.

The inverter starts operation. If the inverter works for the first time, please initialize the inverter according to the instructions on page 22.



## 启动逆变器

### 在启动逆变器前:

- 确保直流开关处于“关闭”状态。
- 确保交流开关处于“关闭”状态。
- 确保直流输入连接正确。

### 启动逆变器的具体步骤如下所示:

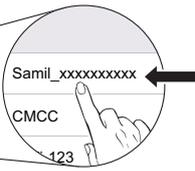
1. 连接AC端子
2. 连接DC端子
3. 将直流开关旋转至“开启”位置。
4. 打开交流电源。

逆变器开始运行。如果第一次启动逆变器：逆变器需要进行初始化设置。设置步骤见22页

- Scan the QuickMark of Samilportal APP below and download it into mobile phone.

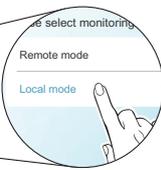


- Complete the DC and AC wiring and turn on DC switch. Then the LED lights begin to flash alternately in term of red, green, blue.
- Connect the WiFi hotspot of the inverter: Samil\_XXXXXXXXXX.

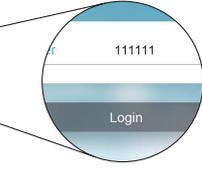


XXXXXXXXXX is the 10 bit series number of the inverter

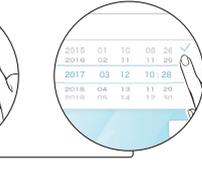
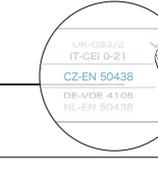
- Click the SamilPortal APP.
- Select "Local mode" in the "mode select" interface and enter the login interface.



- Select "User" in the login interface. Input the password (the default password is111111 ) and enter the initialization interface .



- Set the "Grid code" and "Date and time" in the initialization interface. Press "√" to confirm. After both of the parameters are set, click "Done" and finish the initialization.



The inverter performs self-tests and checks the AC-grid. The inverter starts operation after a few minutes.

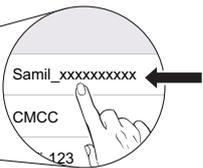
If User chooses the Remote mode monitoring, please operate as following: Home->setting->communication setting->WiFi. Choose the right Network name(router name). Input the password and click "set" .



- 扫描下面Samilportal APP二维码并下载至手机。



- 当逆变器的直流侧和交流侧通电后，逆变器LED红灯、绿灯、蓝灯开始交替闪烁；
- 打开手机设置项，连接逆变器WiFi热点：Samil\_XXXXXXXXXX



XXXXXXXXXX  
为逆变器10  
位序列号

- 打开SamilPortal APP；
- 在“模式设置”页面选择“近端模式”，进入登录界面。



- 在登录界面选择“个人用户”；
- 输入密码（密码为111111），进入“初始化设置”页面。



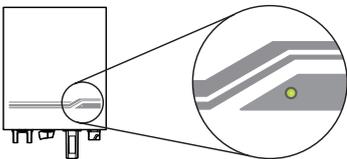
- 在“初始化设置”页面依次设置“电网标准”及“日期与时间”，按“√”确认，设置完成后，点击“完成”，结束初始化设置。



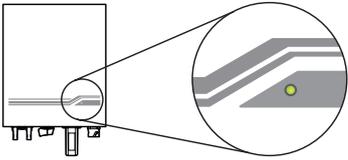
逆变器自检并检查交流电网；  
逆变器将在几分钟内开始工作。

如逆变器需要接入远程监控，从APP主菜单进入“设置->通讯设置->WiFi设置”选项，在“网络名(SSID)”选项选择相应路由器，输入密码，点击“设置”。

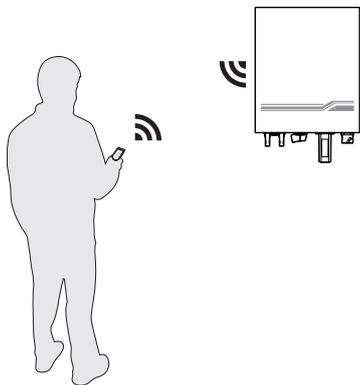




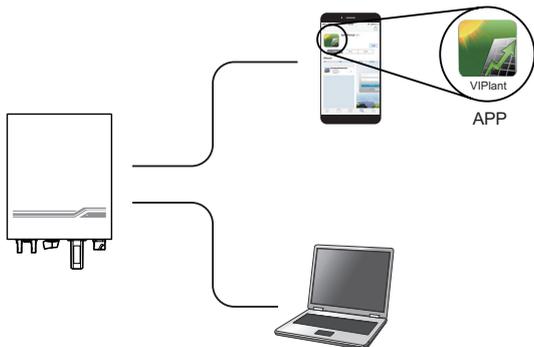
LED Status	Means	Notes
Red light and Green light and Blue light flashing alternately.	<ol style="list-style-type: none"> <li>1. Wifi: the inverter is switched on for the first time, relative parameter need be set by APP.</li> <li>2. GPRS: enter the China safety immediately.</li> <li>3. No communication module: enter the China safety in two minutes.</li> </ol>	When the inverter is switched on for the first time, the safety and time parameters should be set (include entering the test safety automatically).
Green light flashing	The inverter is self-checking and waiting for starting-up.	
Green light on	The inverter operates nomally.	
Red light on	Permanent fault	Restart the inverter. If Red light is always on, please contact with the customer-sevice.
Red light and Blue light flashing alternately.	AC power fault	No AC power, Grid frequency, AC voltage over range and etc. Please resort to the electrician.
Red light and Green light flashing alternately.	FAN fault	Please contact with the customer-sevice.
Red light flashing twice and Green light flashing alternately.	RTC fault	Reset the time by APP.
Red light flashing once and Blue light flashing twice alternately.	ISO fault	Please check the DC cable.
Red light flashing twice and Blue light flashing once alternately.	GFCI fault	Restart the inverter. If Red light is always on, please contact with the customer-sevice.
Red light flashing twice and Blue light flashing twice alternately	PV voltage is abnormal	Please check the DC voltage.
Red light flashing	Other recoverable faults	Restart the inverter. If Red light is always on, please contact with the customer-sevice.
Blue light on	The inverter is upgrading.	Make sure the inverter is not switched off.



闪烁方式	含义	备注
红绿蓝三色灯交替闪烁	<ol style="list-style-type: none"> <li>1. WIFI: 首次开机, 需要通过APP设置相关参数</li> <li>2. GPRS: 立即自动进入中国安规</li> <li>3. 无通讯模块: 两分钟后自动默认中国安规</li> </ol>	首次上电完成安规, 时间等相关设置 (包括自动默认进入的安规模式)。
绿灯闪烁	机器自检, 等待开机	
绿灯常亮	机器正常并网发电	
红灯常亮	永久性故障	可重启逆变器, 如还是红灯常亮, 需要联系客服。
红灯和蓝灯交替闪烁	市电故障	无市电, 电网频率, 电压超范围, 请电工检查市电情况。
红灯和绿灯交替闪烁	FAN故障	请联系山亿客服。
红灯闪两下, 绿灯闪一下交替	RTC故障	重新通过APP设置时间。
红灯闪一下, 蓝灯闪两下交替	ISO故障	请检查直流测线缆是否有问题。
红灯闪两下, 蓝灯闪一下交替	GFCI故障	可重启逆变器, 如还是红灯常亮, 需要联系客服。
红灯闪两下, 蓝灯闪两下交替	PV电压异常	检查直流侧电压。
红灯闪烁	其他可恢复故障	可重启逆变器, 如还是红灯常亮, 需要联系客服。
蓝灯常亮	逆变器处于升级状态	确保逆变器不被断电。



①



②

## Monitoring Mode

EN

The inverter can be monitored by the local monitoring mode or remote monitoring mode:

### 1. Local Monitoring Mode:

For the inverter installed WIFI module, user beside the inverter can view the monitoring data and set the parameters via SamilPortal APP local mode.

### 2. Remote Monitoring Mode:

The inverter supports remote monitoring by connecting the GPRS module or WiFi module. User can view the monitoring data as follows:

- Remote mode of the APP;
- Visit [www.samilportal.com](http://www.samilportal.com) to view monitoring data.

## 监控模式

ZH

用户可通过近端或远程模式进行监控：

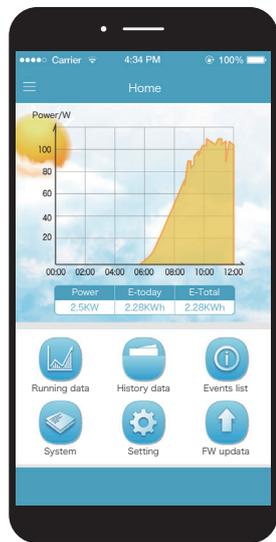
### 1. 近端模式：

对于已经安装了WiFi模块的逆变器，用户如果在机器旁边，可以通过APP的近端模式查看监控数据或者设置逆变器相关参数。

### 2. 远程模式：

逆变器支持通过外接GPRS模块或WiFi模块实现远程监控，用户可以通过以下方式进行查看：

- APP的远程模式查看监控数据；
- 访问[www.samilportal.com](http://www.samilportal.com)网站查看监控数据。



## Local Monitoring Mode

EN

The Local Monitoring Mode is only applicable to the inverter which has been installed WiFi module.

- User can view the inverter operating status and power generation data after entering the "Running data", "History data", "Events list" and "System info" interface.
- User can set the inverter parameters after entering the "setting" interface

- User can update the inverter software after entering the "FW update" interface.
- ➔ The WiFi module can only be installed as described on page 21.
- ➔ Please set up the WiFi module according to page 22 and enter the Local Monitoring Mode.

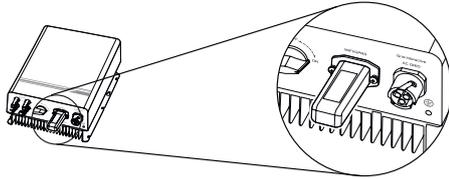
## 近端监控模式

ZH

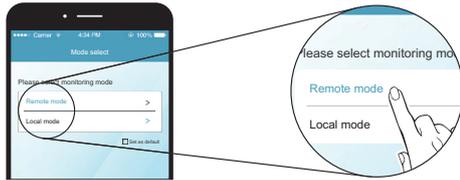
近端监控模式仅适用于已安装WiFi模块的逆变器。

- 用户可以进入“固件升级”页面对逆变器固件进行升级。
- ➔ 请按照本说明书第21页要求安装WiFi模块。
- ➔ 请按照本说明书第22页要求设置WiFi模块并进入近端模式。
- 在“实时数据”、“历史数据”、“事件列表”、“系统信息”页面，用户可以查看机器运行状态及发电量数据相关信息；
- 用户可以进入“设置”页面设置逆变器相关参数；

- Make sure the inverter and GPRS module or WiFi module are connected securely.
  - The module can only be installed as described on page 21.



- Click the SamilPortal APP icon.
- Select "Remote mode" in the "mode select" interface and enter the login interface.

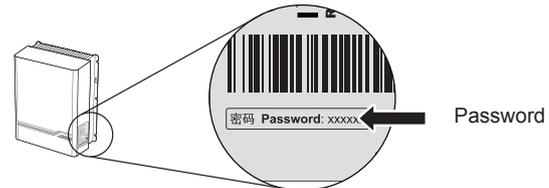


- Click the SamilPortal APP.
- Select "Local mode" in the "mode select" interface and enter the login interface.



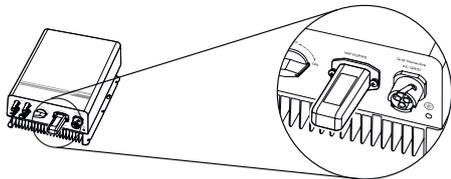
## Remote Monitoring Mode

- Scan the series number on the label of the inverter. Input the password and click "Done" to finish creating plants.



User can login and view the monitoring data of plants and inverters by Remote mode of SamilPortal APP. In addition, User can also add new inverters in the existing plant and create new plant in the existing user account.

- 确保GPRS模块或WIFI模块与逆变器之间可靠连接。  
→ 安装步骤详见P21。



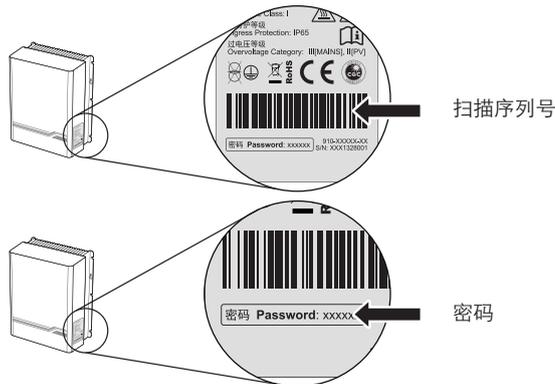
- 打开SamiiPortal APP;
- 在“模式设置”页面选择“远程模式”，进入登录界面。



- 在登录页点击“注册”，填写相关信息，点击“下一步”，进入“快速创建电站”项。



- 扫描逆变器标贴上的序列号，输入密码，点击“确认”，电站即创建完成。

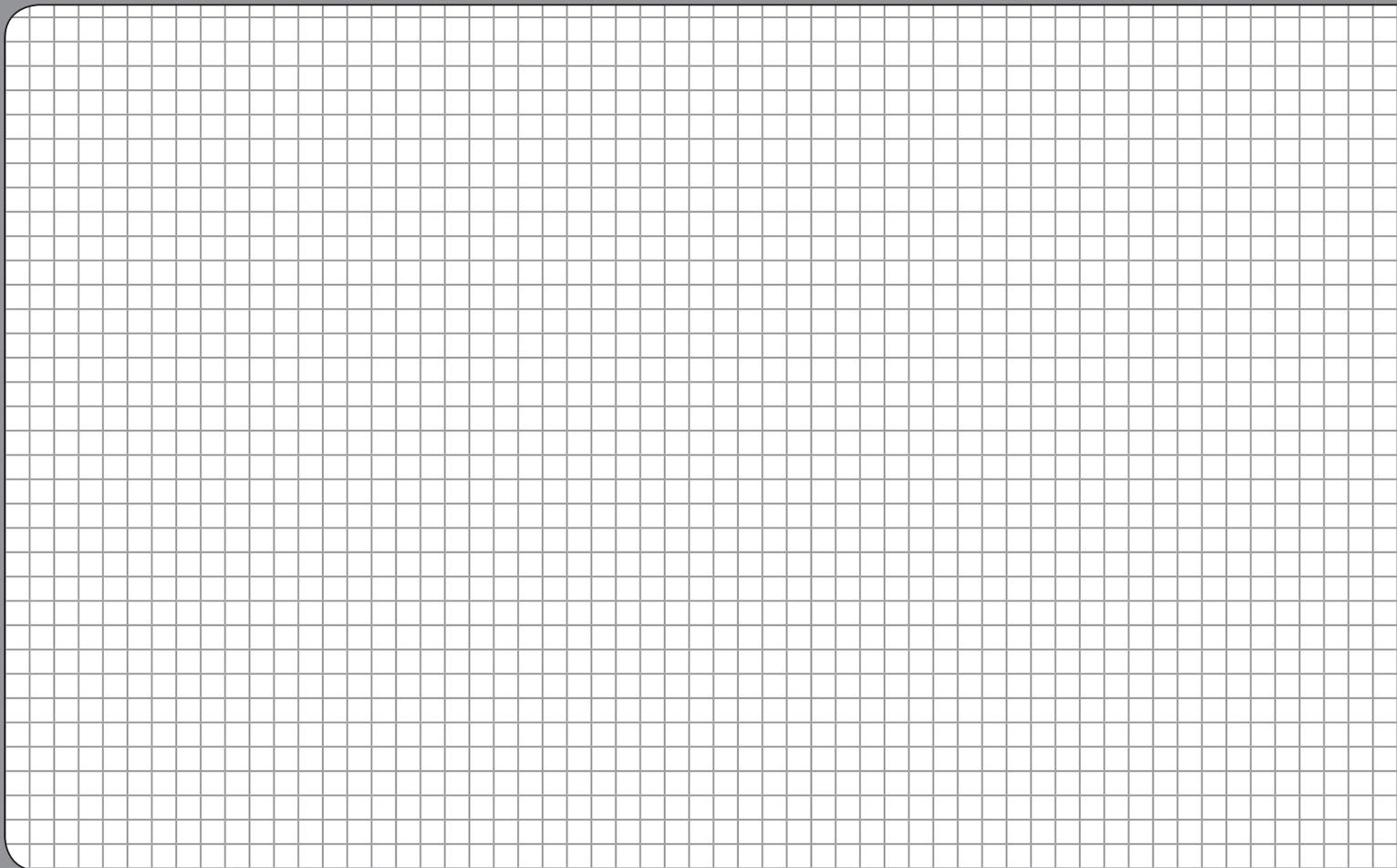


用户后续可以在APP远程模式下登录查看电站及逆变器监控数据，还可以在已经创建的电站下面继续添加新的逆变器，也可以在已经注册的账号下面继续创建新的电站。

	SolarRiver 4500TL-G3	SolarRiver 5300TL-G3	SolarRiver 5600TL-G3	SolarRiver 6000TL-G3
<b>Input (DC)</b>				
Max. DC power	4500 W	5300 W	5600 W	6000 W
Max. DC power per MPPT	2800 W	3600 W	3600 W	3600 W
Max. input voltage		600 V		
Full load MPP voltage range	210 V - 530 V	230 V - 530 V	245 V - 530 V	265 V - 530 V
MPP voltage range		125 V - 560 V		
Min. input voltage / Initial input voltage		100 V / 150 V		
Max. input current	20A (10A / 10A)	23A (11.5A / 11.5A)	23A (11.5A / 11.5A)	23A (11.5A / 11.5A)
Number of independent MPP inputs / strings per MPP input		2 / 1		
<b>Output (AC)</b>				
Rated power (@cosφ=1)	4000 W	4600 / 4950 / 5000 W*	5300 W	5750 W
Max. apparent AC power	4000 VA	4600 / 4950 / 5000 VA*	5300 VA	5750 VA
Max. output current	18.3 A	21.7 A	23 A	25 A
Nominal AC voltage		230V/ac ( single phase )		
AC voltage range		180 V - 276 V		
Nominal grid frequency		50 Hz / 60 Hz		
Grid frequency range		45 Hz - 65 Hz / 55 Hz - 65 Hz		
Power factor		>0.99@nominal power ( adj. 0.80 leading ~0.80 lagging )		
<b>Efficiency</b>				
Max. efficiency / Max. European weighted efficiency		97.8 % / 97.5 %		
<b>Protective devices</b>				
DC disconnect device / AC disconnect device		○ / -		
Ground fault monitoring / Grid monitoring		● / ●		
DC reverse polarity protection / AC short circuit protection		● / ●		
Residual-current monitoring unit		●		
Protection class (according to IEC 62103) / overvoltage category (according to IEC 60664-1)		I / III (DC), III (AC)		
<b>General data</b>				
Dimensions (W / H / D)		297 / 357 / 166 mm		
Weight		10 Kg		
Operating temperature range		-25°C...+60°C		
Noise emission		<30 dB		
Self-consumption (night)		< 1 W		
Topology		Transformerless		
Cooling concept		Natural convection		
Degree of protection (according to IEC 60529)		IP65		
Maximum permissible value for relative humidity (non-condensing)		95%		
<b>Features</b>				
DC connection / AC connection		MCA / P-P (Plug and play) connector		
Display		LED, Mobile Phone APP / 3.5 inch LCD (Optional)		
Communication Interface: WIFI / GPRS		● / ○ / ○ / ○		
Warranty: 5 / 10 / 15 / 20 years		● / ○ / ○ / ○		
Certificates and approvals (additional on request)	CE, VDE 0126-1-1, G59/3, CEI 0-21, EN 61000-3-2/3, EN 61000-6-1/2/3/4, IEC 62109-1/2, VDE AR-N4105, AS/NZS4777.2:2015, C10/11, EN 50438, ULTE C15-712-1, IEC 62116, IEC61727 ,COC			
* For Germany, the rated output power of SolarRiver 5300TL-G3 is 4600W*. For Australia, the rated output power of SolarRiver 5300TL-G3 is 4950W				

# ZH Technical Data

	SolarRiver 4500TL-G3	SolarRiver 5300TL-G3	SolarRiver 5600TL-G3	SolarRiver 6000TL-G3
<b>输入 (DC)</b>				
最大输入功率	4500 W	5300 W	5600 W	6000 W
每路最大功率	2800 W	3600 W	3600 W	3600 W
最大输入电压		600 V		
满载MPPT电压范围	210 V - 530 V	230 V - 530 V	245 V - 530 V	265 V - 530 V
MPP电压范围		125 V- 560 V		
最小输入电压 / 启动电压		100 V / 150 V		
最大输入电流	20A (10A / 10A)	23A (11.5A / 11.5A)	23A (11.5A / 11.5A)	23A (11.5A / 11.5A)
独立MPPT路数 / 每路MPPT电数			2 / 1	
<b>输出 (AC)</b>				
额定输出功率 (@cosφ=1)	4000 W	4600 / 4950 / 5000 W*	5300 W	5750 W
最大现在功率	4000 VA	4600 / 4950 / 5000 VA*	5300 VA	5750 VA
最大输出电流	18.3 A	21.7 A	23 A	25 A
额定输出电压		230Vac (单相)		
输出电压范围		180 V - 276 V		
额定电网频率		50 Hz / 60 Hz		
电网频率范围		45 Hz - 55 Hz / 55 Hz - 65 Hz		
功率因数		>0.99@满功率 (可调节范围 0.8超前-0.8滞后)		
效率			97.8 % / 97.5 %	
最大效率 / 欧洲效率			○ / -	
<b>保护装置</b>				
直流开关 / 交流开关				
接地故障监测 / 电网监测			● / ●	
直流反接保护 / 交流短路保护			● / ●	
漏电流监测			●	
保护等级 (遵照IEC 62103) / 过压等级 (遵照IEC 60864-1)			I / II (DC), III (AC)	
<b>一般参数</b>				
尺寸 (宽/高/厚)			287 / 357 / 166 mm	
重量			10 kg	
运行温度范围			-25°C ... +60°C	
噪音等级 (典型)			<30 dB	
自耗电 (夜间)			< 1 W	
拓扑结构			无变压器	
冷却方式			自然散热	
防护等级 (遵照IEC 60529)			IP65	
最大湿度 (无凝结)			95%	
<b>性能</b>				
DC端子 / AC端子			MC4 / 即插即用连接器	
显示			LED, 手机APP / 3.5寸 LCD (可选)	
通讯接口: WiFi / GPRS			○ / ○	
质保: 5 / 10 / 15 / 20年			● / ○ / ○ / ○	
认证 (可按要求增加)			CE, VDE 0126-1-1, G59/3, CEI 0-21, EN 61000-3-2/3, EN 61000-6-1/2/3/4, IEC 62109-1/2, VDE AR-N4105, ABSINZS4777.2:2015, C10/11, EN 50438, UTE C15-712-1, IEC 62116, IEC61727, CCC	
* 德国 SolarRiver 5300TL-G3 额定输出功率为 4600W; 澳大利亚 SolarRiver 5300TL-G3 额定输出功率为 4950W				





# Warranty Claim

## 质保卡

Installer Name 安装商名称:

### Contact Details 联系信息

☆ Phone 电话:

☆ Email 邮箱:

☆ Site address with Post Code 地址和区号:

☆ Address for delivery of replacement if different from above:  
如换机信息与以上信息不同的邮递地址:

### System Details 系统信息

☆ Inverter Model 逆变器型号:

☆ Inverter Serial Number 逆变器序列号:

☆ PV Module Type 电池板型号:

☆ Number of Strings 电池板串数:

☆ Modules per String 每串的电池板数量:

### Fault Details 错误信息

☆ Fault Code 错误代码:

☆ Fault Description 错误描述:

☆ Signature 签字:

☆ Date 日期:

### For Office Use 办公室使用

☆ Remarks 备注:

☆ Decision 审批:

☆ Signature 签字:

☆ Date 日期:

### Feedback from Client 客户反馈

☆ Date of Receipt of Replacement 收到换机的日期:

☆ Replacement Model and Serial Number 换机的型号和序列号:

☆ Faulty Unit Pickup Details 坏机回收信息:

☆ Remarks / Comments 备注/说明:







