



SUNGROW SG5KTL-MT PV Grid-Connected Inverter Installation Guide

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SUNGROW SG5KTL-MT PV Grid-Connected Inverter



1. Contents may be periodically updated or revised due to product development. The information in this guide is

subject to change without notice. In no case shall this guide substitute for the user manual or related notes on the device.

2. Make sure to read over, fully understand and strictly follow the detailed instructions of the user manual and other related regulations. Visit <http://www.sungrowpower.com/>, choose “PV Inverters” and search for the device model on the “Products” tab page to view or obtain the user manual.
3. All operations can be performed only by qualified personnel, that must be trained in the installation and commissioning of the electrical system, as well as the dealing with hazards, have knowledge of the manual and of the local regulations and directives.
4. Before installation, check that the package contents are intact and complete against the packing list. Contact SUNGROW or the distributor in case of any damaged or missing components.
5. The cable must be intact and well insulated. Operation personnel must wear proper personal protective equipment (PPE) all the time.
6. Any violation could result in personal death or injury or device damage, and will void the warranty.

Safety

The inverter has been designed and tested strictly according to international safety regulations. Read all safety instructions carefully prior to any work and observe them at all times when working on or with the inverter. Incorrect operation or work may cause:

- injury or death to the operator or a third party; or
- damage to the inverter and property safety of the operator or a third party.

Please follow the safety instructions related to the PV strings and the utility grid.

DANGER

- PV strings will produce electrical power when exposed to sunlight and can cause a lethal voltage and an electric shock.
- Only qualified personnel can perform the wiring of the PV panels.

NOTICE

- All electrical connections must be in accordance with local and national standards.
- Only with the permission of the utility grid, the inverter can be connected to the utility grid.

The warning label on the inverter body are as follows.

- Disconnect the inverter from all the external power sources before service!
- Do not touch live parts until 10 minutes after disconnection from the power sources.
- There is a danger from a hot surface that may exceed 60 ° C.
- Danger to life due to high voltages! Only qualified personnel can open and service the inverter.

DANGER

Danger to life from electric shocks due to live voltage

- Do not open the enclosure at any time. Unauthorized opening will void guarantee and warranty claims and in most cases terminate the operating license.
- When the enclosure lid is removed, live components can be touched which can result in death or serious injury due to electric shock. Danger to life from electric shock due to damaged inverter
- Only operate the inverter when it is technically faultless and in a safe state.
- Operating a damaged inverter can lead to hazardous situations that can result in death or serious injuries due to electric shock.

WARNING

Risk of inverter damage or personal injury

- Do not pull out the PV connectors and AC connector when the inverter is running. Disconnect the AC circuit breaker and set the DC load-break switch of the inverter to OFF. Wait 10 minutes for the internal capacitors to discharge. Verify that there is no voltage or current before pulling any connector.

WARNING

All the warning labels and nameplate on the inverter body:

- must be clearly visible; and
- must not be removed, covered or pasted.

CAUTION

Risk of burns due to hot components!

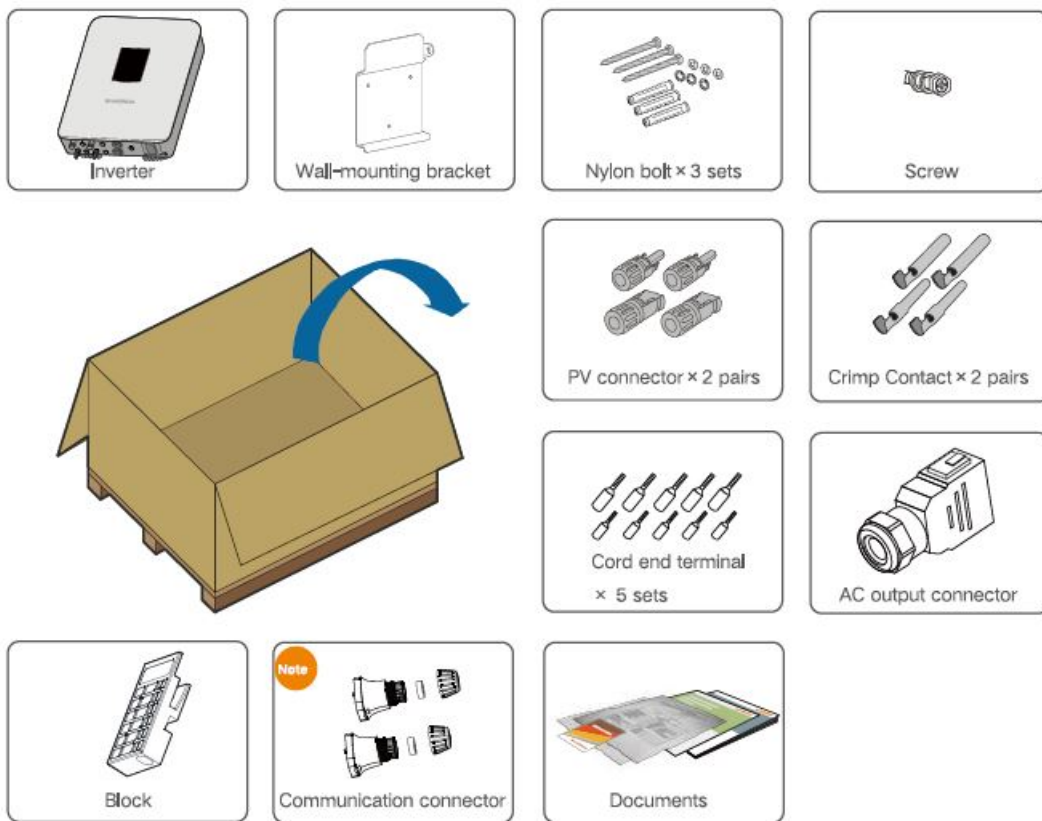
- Do not touch any hot parts (such as heat sinks) during operation. Only the DC switch can safely be touched at any time.

NOTICE

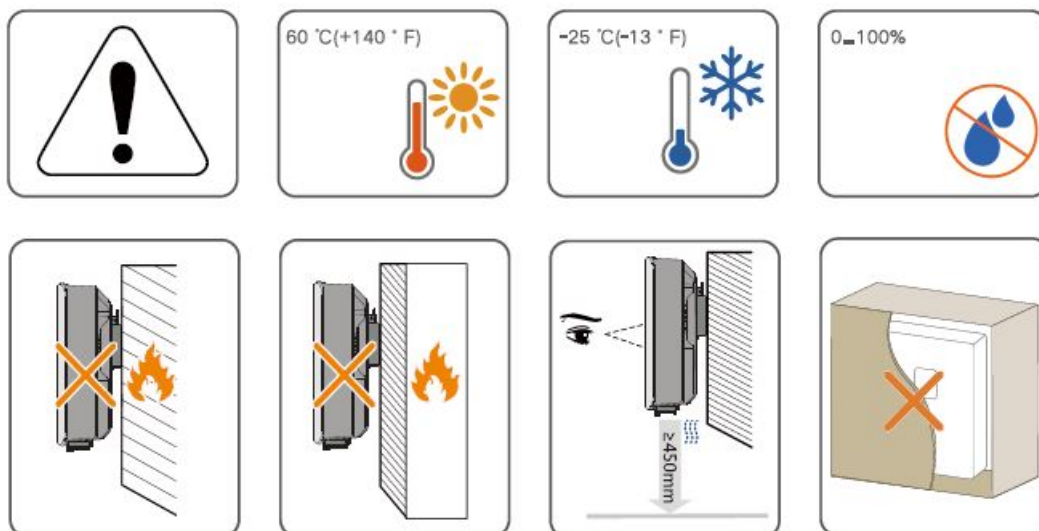
Only qualified personnel can perform the country setting. Unauthorized alteration of the country setting may cause a breach of the type-certificate marking. Risk of inverter damage due to electrostatic discharge (ESD). By touching the electronic components, you may damage the inverter. For inverter handling, be sure to:

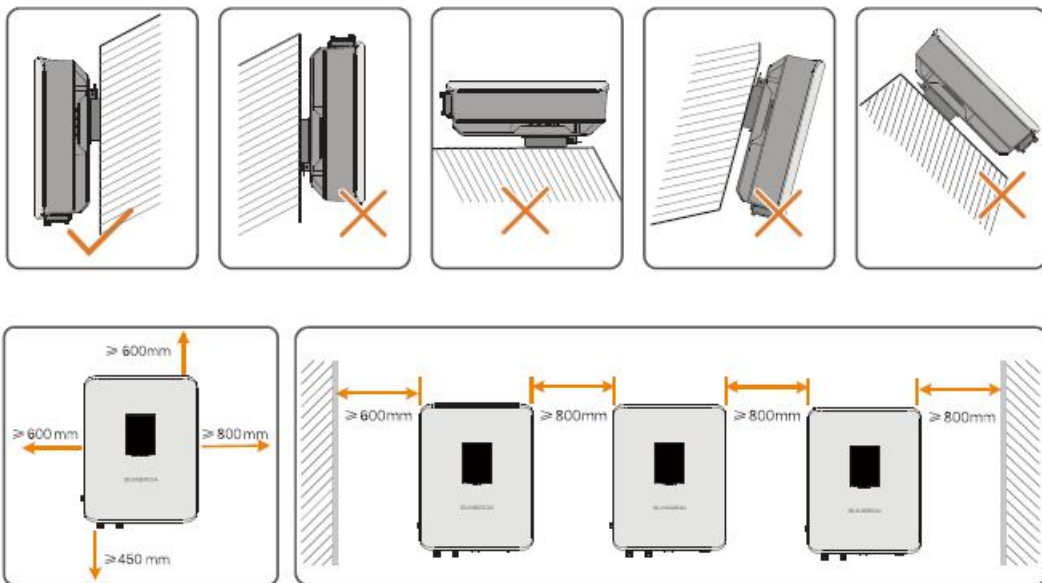
- avoid any unnecessary touching; and
- wear a grounding wristband before touching any connectors.

Scope of Delivery

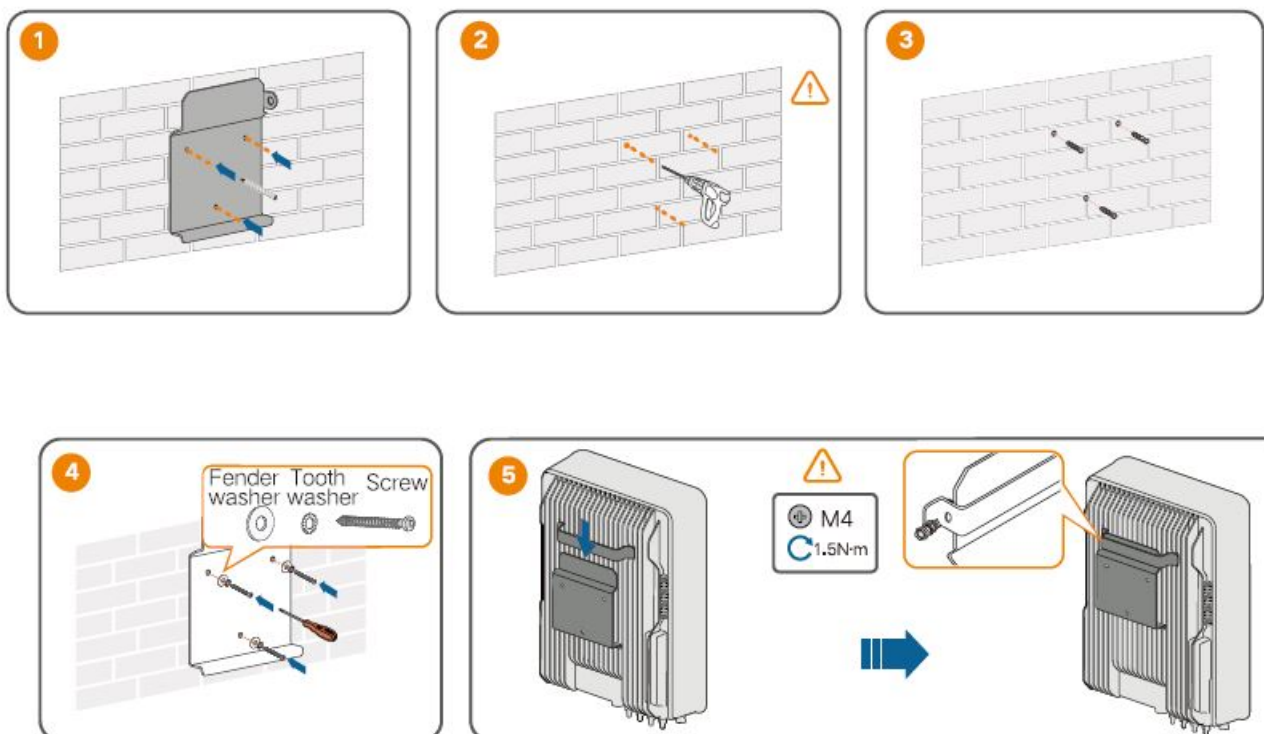
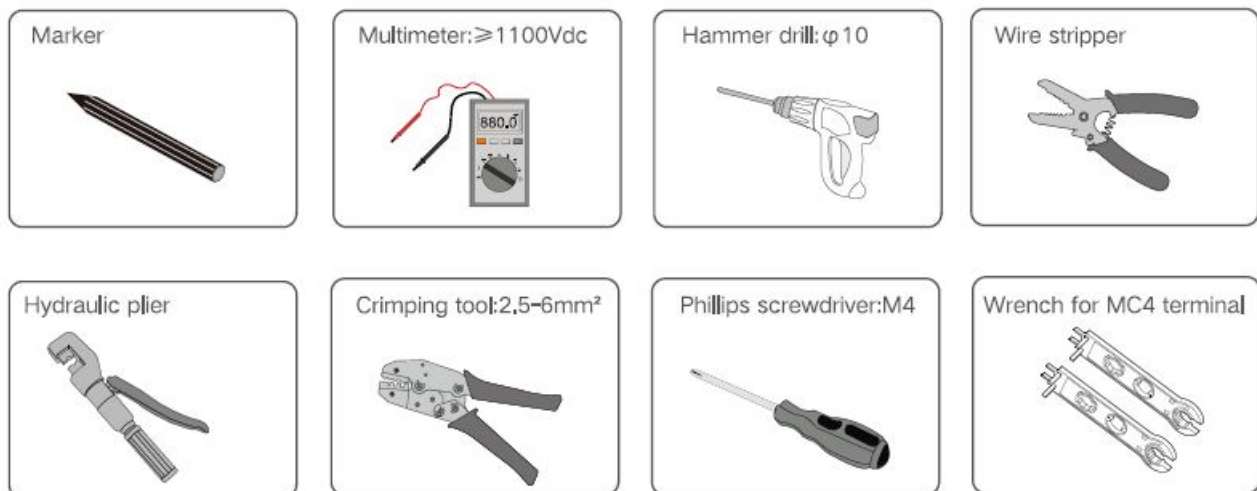


Mounting location

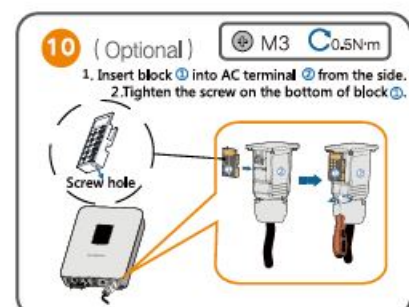
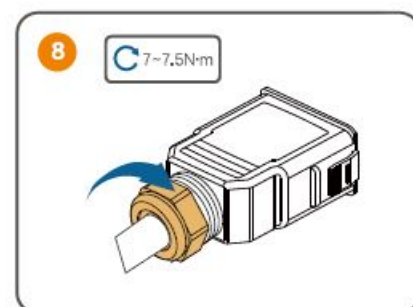
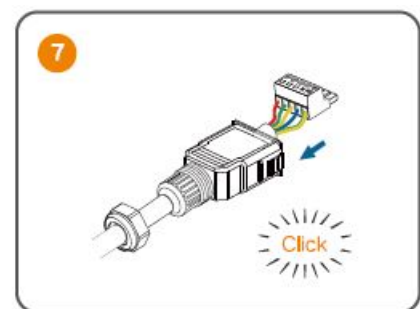
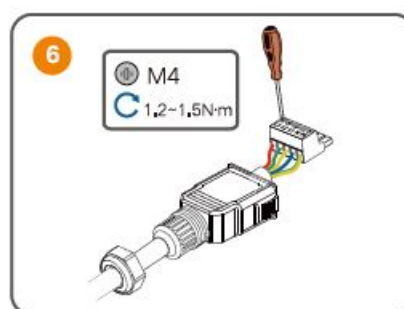
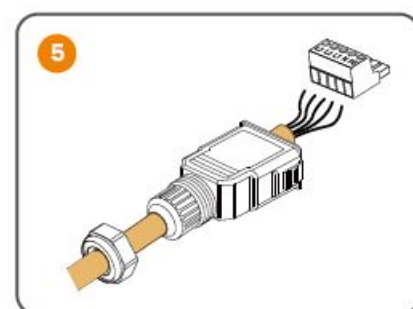
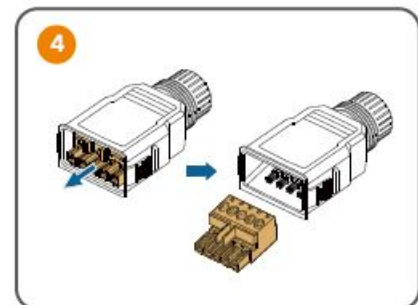
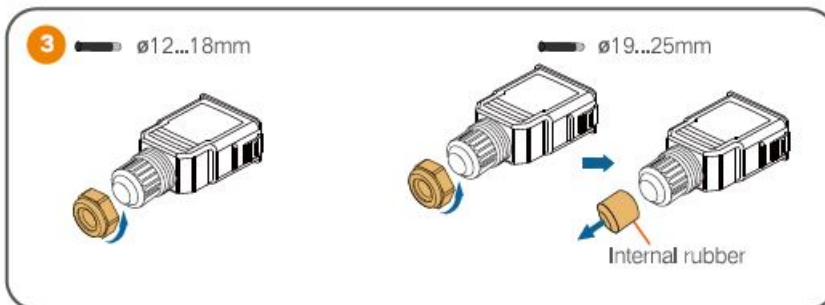
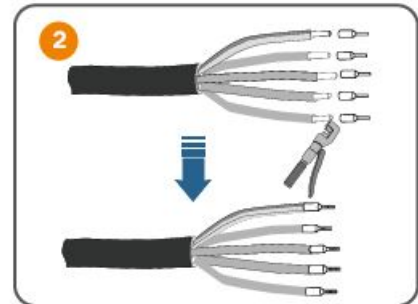
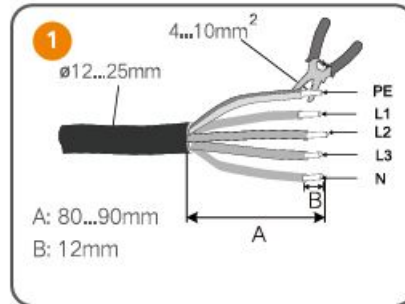
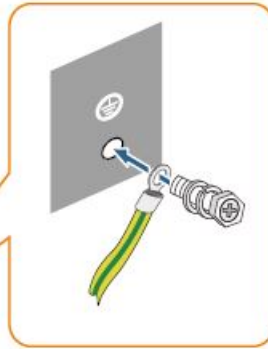
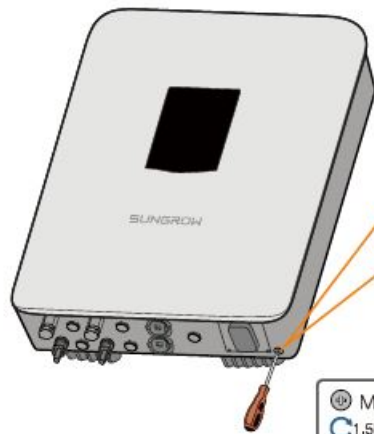


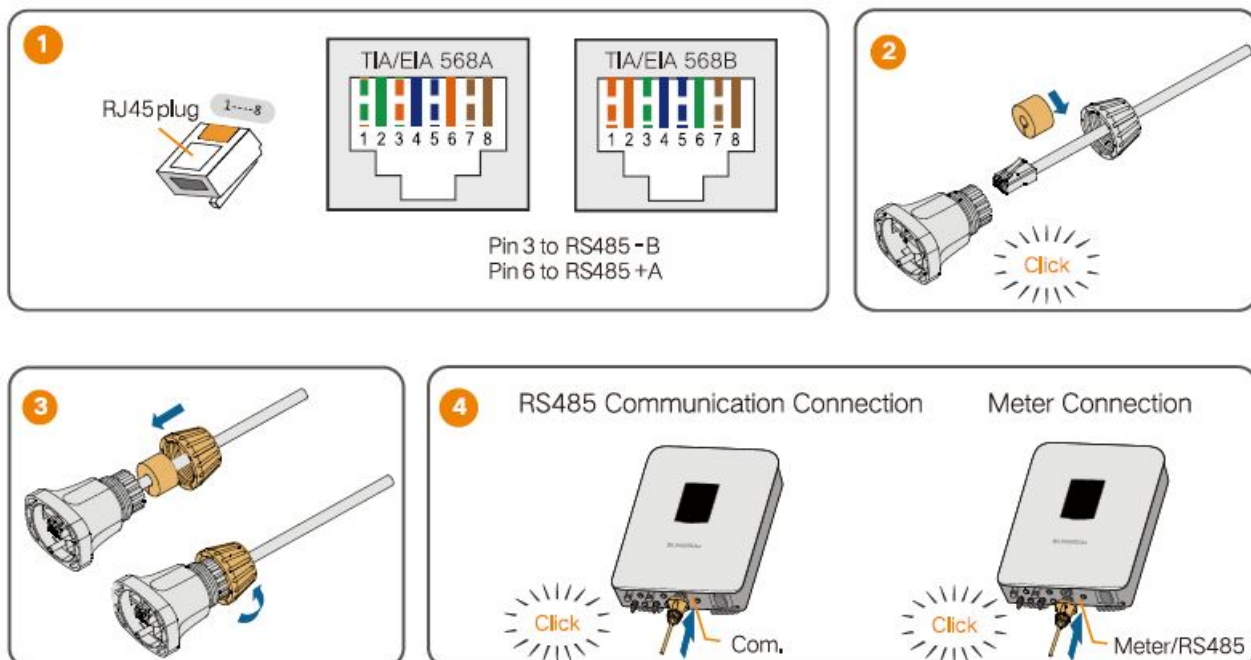


Installation tools

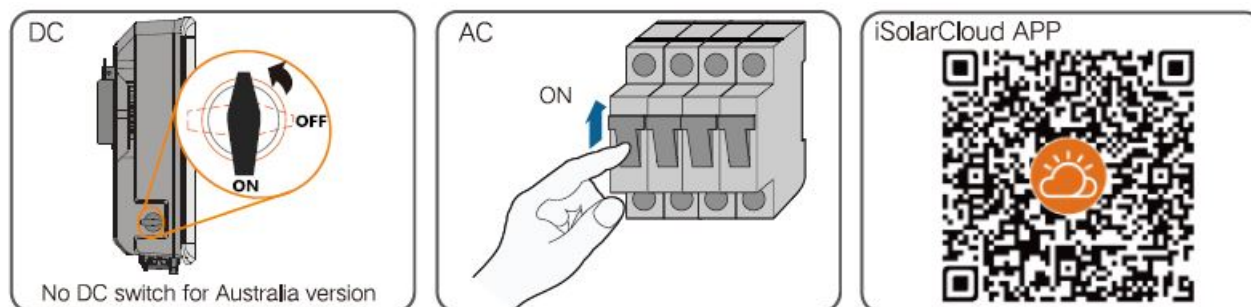


Use appropriate mounting hardware for wall type.












Power on



LED indicator panel

LED indicator	LED color	LED state	Definition
Bluetooth 	Blue	ON	Bluetooth connected, without data exchange
		Flashing	Bluetooth connected, with data exchange
		OFF	No device connected via Bluetooth
Communication 	Blue	Flashing	Communication cable/module connected, with data exchange
		OFF	Communication cable/module connected, without data exchange
Fault/PID 	Red	ON	Fault occurs (feed-in operation interrupted)
		Flashing	Fault restored
	Green	ON	PID function enabled
		Flashing	PID function exception
	-	OFF	No alarms or faults, PID function disabled
Earth impedance abnormal 	Red	ON	Earthing short circuit (feed-in operation interrupted)
		OFF	No faults
Normal operation 	Green	ON	Normal feed-in operation
		Flashing	Standby or startup state
		OFF	Powered off or fault occurs

Documents / Resources

 <p>Quick Installation Guide SG5KTL-MT PV Grid-Connected Inverter SG5KTL-MT, PV Grid-Connected Inverter</p>	<p>SUNGROW SG5KTL-MT PV Grid-Connected Inverter [pdf] Installation Guide SG5KTL-MT PV Grid-Connected Inverter, SG5KTL-MT, PV Grid-Connected Inverter</p>
 <p>Quick Installation Guide SG5KTL-MT PV Grid-Connected Inverter SG5KTL-MT, PV Grid-Connected Inverter</p>	<p>SUNGROW SG5KTL-MT PV Grid-Connected Inverter [pdf] Installation Guide SG5KTL-MT PV Grid-Connected Inverter, SG5KTL-MT, PV Grid-Connected Inverter</p>