



Product Service

CERTIFICATE

No. B 17 01 73342 156

Holder of Certificate:
SUNGROW
 阳光电源

Sungrow Power Supply Co., Ltd.

No. 1699 Xiyou Road, New & High
 Technology Industrial Development Zone,
 230088 Hefei, Anhui
 PEOPLE'S REPUBLIC OF CHINA



Certification Mark:



Product:

**Converter
 Grid-Connected Inverter**

The product was tested on a voluntary basis and complies with the essential requirements. The certification mark shown above can be affixed on the product. It is not permitted to alter the certification mark in any way. In addition the certification holder must not transfer the certificate to third parties. See also notes overleaf.

Test report no.: 704091403303-05

Valid until: 2022-01-21

Date, 2017-01-23
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Zhengdong Ma
 (Zhengdong Ma)





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Model(s): **SG60KTL, SG60KTL-S**

Parameters:

PV input ratings:	
Min. MPP voltage:	570V DC
Max. MPP voltage:	850V DC
Max. input voltage:	1000V DC
Max. input current:	120A
Isc PV:	140A
AC output ratings:	
Rated output voltage:	3/N/PE AC 400/230V
Rated output frequency:	50/60 Hz
Max. continuous out current:	96 A
Rated output power:	60000 W
Max. apparent power:	66000 VA
Power factor range:	Adj. 0.8 overexcited ... 0.8 underexcited
Protection class:	
Ingress protection:	I IP65(Electronics), IP20(Rear Portion)
Overvoltage category:	
Ambient temperature:	III[MAINS], II[PV] -25°C ... +60°C

Tested according to:

EN 62109-1:2010
 IEC 62109-1(ed.1)
 EN 62109-2:2011
 IEC 62109-2(ed.1)

Production Facility(ies):

73342

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License conditions:

1. When installing the equipment, all requirements of the mentioned standards must be fulfilled.
2. In order to protect the installation against electrical and fire hazard, all branch circuits in an installation, switch gear, cables etc., must be short-circuit and over-current protected according to the national/international regulations.
3. When install PV system generation system, double/reinforced insulation cable shall be installed with mechanical protection or basic insulation cable routed in earthed metal conduit or in cable trucking system buried in solid.

Recommendation of minimum requirement for PV cable: Cu, 4 – 6 mm² @max. 105°C ambient temperature for SG60KTL fourteen string inputs.

Recommended AC cables: Cu, 4x 50 mm²+50mm² 40°C ambient, with operating time of the fuse is less than 5 seconds, installation method B2 according to EN 60204-1:2006, annex D: cable in conduit cable trunking system, number of loaded circuit only one. use min. 90 °C wire for ambient temperature between 40°C and 60°C, using conduits and cable trunking system for holding and protecting cables connected to AC distribution cabinet, ambient temperature factor and group reduction factor should be considered in the end installation.

4. Maximum inverter backfeed current from grid to the array is 0A based on test/circuit topology analysis and manufacturer's declaration.

5. Serial – RS485 are used for telecommunication interface ports with circuitry intended for connection to a Network Environment 0 per manufacturer's instruction manual, according to CLC TR 62102.

RS 485 circuit is classed to be as SELV, Only PELV or SELV voltages may be connected at RS 485 terminals.

6. The grid-connected inverter is intended to be used with appropriate PV-generator, switchgear, SPDs, distribution board, electrical protection components and other device to form complete end systems. Compliance with safety regulations depends upon installing and configuring inverter correctly, including using the specified emergency stop device adjacent to solar inverter. The unit must be installed only by professional assemblers who are familiar with requirements for safety and EMC. The assembler is responsible for ensuring that the end product or system complies with all the relevant laws in the country where it is to be used. Refer to instruction manual.

7. Additional equipment connected to the inverter must comply with the respective IEC, EN or ISO standards (e.g. EN 60950 for data processing equipment, EN 60439 for switchgear).

8. For safety reasons, install the emergency stop devices at station adjacent to solar inverter in the end-system. Pressing the stop function on the control panel of the inverter does not generate an emergency stop and separate the inverter from dangerous potential.

9. To allow maintenance of PV inverter, means of isolating the PV inverter from the AC side shall be provided at the end-use application.

10. An additional approved central NS protection device combined with additional automatic disconnecting means may be provided in end-used PV system between the inverter(s) and the mains according to local regulation or code.

11. Not intended for use with connection to a plug socket!