MANUFACTURER DECLARATION

CERTIFICATE OF COMPLIANCE TO EN 50549-1

DECLARATION OF CONFORMITY FOR GREECE

21.03.2023 | Version 1.2

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REVISIONS

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REV.	**DATE**	**ISSUE, MODIFICATION**	**PREPARED**	**CHECKED**	**APPROVED**

Annex to EN50549-1 Certificate of Compliance

Manufacturer Declaration

Sungrow Power Supply states that the inverters listed in the table have been designed and tested to meet the standards set by the Electromagnetic Compatibility Directive (EMC) and Low Voltage Directive of the Council of the European Union, as indicated by compliance certificate No. 6093833.01AOC of certificate EN50549-1. The EN50549 is due to the EE directive RfG 2016/631.

These inverters meet the required limit values and have been marked with the CE symbol as proof of their compliance with safety requirements for people and property set out in the Community Directives..

It also states that the aforementioned grid-tie inverters:

- Fulfill all requirements stated by the Greek Energy Supply Industry.
- The Anti-islanding protection is implemented in the inverter.
- The Anti-islanding method is implemented according to VDE 0126-1-1.
- The pattern detection method injects reactive current pulses and analyses the resulting frequency behavior.
- The Anti-islanding protection trip time is < 5 seconds.
- Have internal interconnect switch for automatic disconnection.
- Have internal protection of minimum and maximum voltage and grid frequency.
- The disconnection and connection of the inverter to the point of interconnection is done with internal relays which are directly controlled by software.
- An automatic connection and reconnection to the public grid if voltage and frequency are with the range of 0,8 x Unom – 1,15 x Unom, and 49,5 Hz – 50,5 Hz (Unom: 230/400 Vac).
- An immediate disconnection (t< 0,5 s) is the voltage, the frequency or both are not within the mentioned limits.
- The connection time and the reconnection time after clearance of the grid failure is not shorter than 180 seconds.
- The injected DC current into the grid is < 0,5% of nominal current.
- The total harmonic distortion of the output current (THDI) is lower than 5%.
- Th software for adjusting the voltage and frequency protection is not accessible by the user.

This declaration of conformity is issued under the sole responsibility of the manufacturer.

INVERTERS	Output AC Power
SG3.0RS	3 kW
SG3.6RS	3.6 kW
SG4.0RS	4 kW
SG5.0RS	5 kW
SG6.0RS	6 kW
SG3.0RT	3 kW
SG4.0RT	4 kW
SG5.0RT	5 kW
SG6.0RT	6 kW
SG7.0RT	7 kW
SG8.0RT	8 kW
SG10RT	10 kW
SG12RT	12 kW
SG15RT	15 kW
SG17RT	17 kW
SG20RT	20 kW

INVERTERS	Output AC Power
SH3.0RS	3 kW
SH3.6RS	3.6 kW
SH4.0RS	4 kW
SH5.0RS	5 kW
SH6.0RS	6 kW
SH5.0RT	5 kW
SH6.0RT	6 kW
SH8.0RT	8 kW
SH10RT	10 kW
SG33CX	33 kW
SG40CX	40 kW
SG50CX	50 kW
SG110CX	110 kW
SG33CX-P2	33 kW
SG50CX-P2	50 kW
SG125CX-P2	125 kW

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