

# Compliance Document

No. D 073342 0315 Rev. 00

**Holder of Certificate:** **Sungrow Power Supply Co., Ltd.**

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PEOPLE'S REPUBLIC OF CHINA

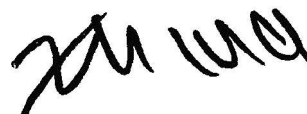
**Product:**

**Converter**  
**Grid-Connected Hybrid Inverter**

This Compliance document confirms the compliance with the listed standards on a voluntary basis. It refers only to the sample submitted for testing and certification and does not certify the quality or safety of the serial products. For details see: [www.tuvsud.com/ps-cert](http://www.tuvsud.com/ps-cert)

**Test report no.:** 704092103502-00

**Date,** 2021-02-08



( Zhengdong Ma )

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**Model(s):** SH5.0RT,SH6.0RT,SH8.0RT,SH10RT

## Parameters:

|  |  |
|--|--|
| PV input port:                           |  |
| Max. input voltage                       | d.c. 1000 V  |
| MPP voltage range                        | d.c. 150-950 V (SH5.0RT),<br>d.c. 200-950 V (SH6.0RT, SH8.0RT, SH10RT)                   |
| Max. input current                       | d.c. 12.5/12.5 A (SH5.0RT, SH6.0RT, SH8.0RT),<br>d.c. 12.5/25 A (SH10RT)                 |
| Isc PV (absolute maximum)                | d.c. 16/16 A (SH5.0RT, SH6.0RT, SH8.0RT),<br>d.c. 16/32 A (SH10RT)                       |
| Battery input port:                      |  |
| Battery type                             | Li-ion   |
| Battery voltage range                    | d.c. 150-600 V   |
| Max. continuous charge/discharge current | d.c. 30 A/30 A   |
| AC input/output port (grid interactive): |  |
| Rated voltage                            | 3/N/PE, a.c. 400/230 V   |
| Rated frequency                          | 50/60 Hz   |
| Rated apparent power                     | 5000 VA (SH5.0RT), 6000 VA (SH6.0RT),<br>8000 VA (SH8.0RT), 10000 VA (SH10RT)            |
| Max. output active power                 | 5000 W (SH5.0RT), 6000 W (SH6.0RT),<br>8000 W (SH8.0RT), 10000 W (SH10RT)                |
| Max. output apparent power               | 5000 VA (SH5.0RT), 6000 VA (SH6.0RT),<br>8000 VA (SH8.0RT), 10000 VA (SH10RT)            |
| Rated output current                     | a.c. 7.3A (SH5.0RT), a.c. 8.7A (SH6.0RT),<br>a.c. 11.6A (SH8.0RT), a.c. 14.5A (SH10RT)   |
| Max. output current                      | a.c. 7.6A (SH5.0RT), a.c. 9.1A (SH6.0RT),<br>a.c. 12.1A (SH8.0RT), a.c. 15.2A (SH10RT)   |
| Displacement factor                      | 0.8 Leading...0.8 Lagging  |
| Max. input current from grid             | a.c. 18.1 A (SH5.0RT), a.c. 21.7 A (SH6.0RT),<br>a.c. 27 A (SH8.0RT), a.c. 30 A (SH10RT) |
| Max. input power from grid               | 12500 W (SH5.0RT), 15000 W (SH6.0RT),<br>18600 W (SH8.0RT), 20600 W (SH10RT)             |

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|                            |  |
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| Backup AC output port:     |  |
| Rated output voltage       | 3/N/PE, a.c. 400/230 V   |
| Rated output frequency     | 50/60 Hz   |
| Rated output current       | a.c. 7.3A (SH5.0RT), a.c. 8.7A (SH6.0RT),<br>a.c. 11.6A (SH8.0RT), a.c. 14.5A (SH10RT) |
| Max. output active power   | 5000 W (SH5.0RT), 6000 W (SH6.0RT),<br>8000 W (SH8.0RT), 10000 W (SH10RT)              |
| Max. output apparent power | 5000 VA (SH5.0RT), 6000 VA (SH6.0RT),<br>8000 VA (SH8.0RT), 10000 VA (SH10RT)          |
|                            |  |
| Inverter topology          | Non-isolated   |
| Protection class:          | I  |
| Degree of protection:      | IP65   |
| Overvoltage category:      | II (PV and Battery), III (MAINS)   |
| Ambient temperature:       | -25°C...+60°C  |

**Tested according to:** IEC 61727:2004  
 IEC 62116:2014  
 IEC 61683:1999