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Product Service

# Compliance Document

## No. D 121007 0013 Rev. 00

**Holder of Certificate:** **Shanghai SIGEN New Energy Technology Co., Ltd.**
No.175 Weizhan Rd.
Lin-gang
201304 Shanghai
PEOPLE'S REPUBLIC OF CHINA

**Product:** **Converter**

**Grid interactive 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

**Test report no.:** 5040923022427-00

**Date,** 2023-09-26

( Zhengdong Ma )


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**Model(s):** **Sigen Hybrid 3.0 SP, Sigen Hybrid 3.6 SP**
**Sigen PV Max 3.0 SP, Sigen PV Max 3.6 SP**

## Parameters:

| Sigen Hybrid Inverter | | |
|---|---|---|
| Model | Sigen Hybrid 3.0 SP | Sigen Hybrid 3.6 SP |
| PV input parameters | | |
| Max. PV input voltage | DC 600 V | DC 600 V |
| MPPT voltage range | DC 50-550 V | DC 50-550 V |
| Max. input current | DC 16/16 A | DC 16/16 A |
| Isc PV | DC 20/20 A | DC 20/20 A |
| AC output parameters | | |
| Rated active power | 3.0 kW | 3.68 kW |
| Max. apparent power | 3.3 kVA | 3.68 kVA |
| Rated frequency | 50 Hz | 50 Hz |
| Rated voltage | AC 230 V | AC 230 V |
| Max. continuous current | AC 15 A | AC 16 A |
| Power factor | 0.8 leading…1…0.8 lagging | |
| Battery input port parameters | | |
| Battery voltage range | DC 300-600 V | |
| Battery Maximum Continuous Current | DC 12 A | |

| Sigen PV Inverter | | |
|---|---|---|
| Model | Sigen PV Max 3.0 SP | Sigen PV Max 3.6 SP |
| PV input parameters | | |
| Max. PV input voltage | DC 600 V | DC 600 V |
| MPPT voltage range | DC 50-550 V | DC 50-550 V |
| Max. input current | DC 16/16 A | DC 16/16 A |
| Isc PV | DC 20/20 A | DC 20/20 A |
| AC output parameters | | |
| Rated active power | 3.0 kW | 3.68 kW |
| Max. apparent power | 3.3 kVA | 3.68 kVA |
| Rated frequency | 50 Hz | 50 Hz |
| Rated voltage | AC 230 V | AC 230 V |
| Max. continuous current | AC 15 A | AC 16 A |
| Power factor | 0.8 leading…1…0.8 lagging | |


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Protection settings (Manufacturer default settings)

| Protection function | Trip setting | Time Delay Setting |
|---|---|---|
| U/V | $V_{\varphi-N}$ – 20% | 2.5s |
| O/V st 1 | $V_{\varphi-N}$ + 14% | 1.0s |
| O/V st 2 | $V_{\varphi-N}$ + 19% | 0.5s |
| U/F st 1 | 47.5 Hz | 20s |
| U/F st 2 | 47 Hz | 0.5s |
| OF | 52 Hz | 0.5s |
| Loss of Mains (RoCoF) | 1 $Hzs^{-1}$ | |

**Tested according to:** G98/1-7:2022


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