

Compliance Document

No. D 121007 0011 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

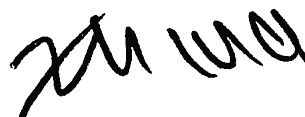
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Test report no.:

5040923022428-00

Date,

2023-09-26



(Zhengdong Ma)

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Model(s):

Sigen Hybrid 4.0 SP, Sigen Hybrid 4.6 SP
 Sigen Hybrid 5.0 SP, Sigen Hybrid 6.0 SP
 Sigen PV Max 4.0 SP, Sigen PV Max 4.6 SP
 Sigen PV Max 5.0 SP, Sigen PV Max 6.0 SP

Parameters:

Sigen Hybrid Inverter				
Model	Sigen Hybrid 4.0 SP	Sigen Hybrid 4.6 SP	Sigen Hybrid 5.0 SP	Sigen Hybrid 6.0 SP
PV input parameters				
Max. PV input voltage	DC 600 V	DC 600 V	DC 600 V	DC 600 V
MPPT voltage range	DC 50-550 V	DC 50-550 V	DC 50-550 V	DC 50-550 V
Max. input current	DC 16/16 A	DC 16/16 A	DC 16/16 A	DC 16/16 A
Isc PV	DC 20/20 A	DC 20/20 A	DC 20/20 A	DC 20/20 A
AC output parameters				
Rated active power	4.0 kW	4.6 kW	5.0 kW	6.0 kW
Max. apparent power	4.4 kVA	5.0 kVA	5.5 kVA	6.6 kVA
Rated frequency	50 Hz	50 Hz	50 Hz	50 Hz
Rated voltage	AC 230 V	AC 230 V	AC 230 V	AC 230 V
Max. continuous current	AC 20 A	AC 22.7 A	AC 25 A	AC 30 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 4.0 SP	Sigen PV Max 4.6 SP	Sigen PV Max 5.0 SP	Sigen PV Max 6.0 SP
PV input parameters				
Max. PV input voltage	DC 600 V	DC 600 V	DC 600 V	DC 600 V
MPPT voltage range	DC 50-550 V	DC 50-550 V	DC 50-550 V	DC 50-550 V
Max. input current	DC 16/16 A	DC 16/16 A	DC 16/16 A	DC 16/16 A
Isc PV	DC 20/20 A	DC 20/20 A	DC 20/20 A	DC 20/20 A
AC output parameters				
Rated active power	4.0 kW	4.6 kW	5.0 kW	6.0 kW
Max. apparent power	4.4 kVA	5.0 kVA	5.5 kVA	6.6 kVA
Rated frequency	50 Hz	50 Hz	50 Hz	50 Hz
Rated voltage	AC 230 V	AC 230 V	AC 230 V	AC 230 V
Max. continuous current	AC 20 A	AC 22.7 A	AC 25 A	AC 30 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	$V_{\phi-N} - 20\%$	2.5s
O/V st 1	$V_{\phi-N} + 14\%$	1.0s
O/V st 2	$V_{\phi-N} + 19\%$	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 time delay 0.5 s	

**Tested
according to:**

G99/1-9:2022