

# Compliance Document

No. D 121007 0012 Rev. 00

**Holder of Certificate:** **Shanghai SIGEN New Energy Technology Co., Ltd.**

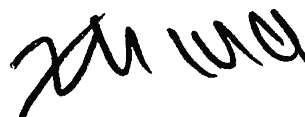
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**Product:** **Energy Storage System**  
**Grid interactive energy storage inverter**

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.:** 5040923022420-00

**Date,** 2023-09-29



( Zhengdong Ma )

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**Model(s):**                      **SigenStor EC 4.0 SP, SigenStor EC 4.6 SP, SigenStor EC 5.0 SP, SigenStor EC 6.0 SP, SigenStor AC 4.0 SP, SigenStor AC 4.6 SP, SigenStor AC 5.0 SP, SigenStor AC 6.0 SP.**

## Parameters:

Sigen Energy Controller				
Model	SigenStor EC 4.0 SP	SigenStor EC 4.6 SP	SigenStor EC 5.0 SP	SigenStor EC 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 Storage Controller				
Model	SigenStor AC 4.0 SP	SigenStor AC 4.6 SP	SigenStor AC 5.0 SP	SigenStor AC 6.0 SP
Battery input port parameters				
Battery voltage range	DC 300-600 V	DC 300-600 V	DC 300-600 V	DC 300-600 V
Battery Maximum Continuous Current	DC 12 A	DC 12 A	DC 12 A	DC 12 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	$V_{\varphi-N} - 20\%$	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 <sup>-1</sup> time delay 0.5 s	

**Tested  
according to:**

G99/1-9:2022