

Compliance Document

No. D 121007 0007 Rev. 00

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

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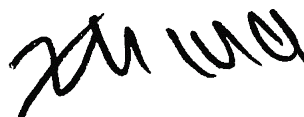
PEOPLE'S REPUBLIC OF CHINA

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.: 5040923022405-00

Date, 2023-08-04



(Zhengdong Ma)

Compliance Document

No. D 121007 0007 Rev. 00

Model(s):

SigenStor EC 3.0 SP, SigenStor EC 3.6 SP, SigenStor EC 4.0 SP,
 SigenStor EC 4.6 SP, SigenStor EC 5.0 SP, SigenStor EC 6.0 SP,
 SigenStor AC 3.0 SP, SigenStor AC 3.6 SP, SigenStor AC 4.0 SP,
 SigenStor AC 4.6 SP, SigenStor AC 5.0 SP, SigenStor AC 6.0 SP,
 Sigen Hybrid 3.0 SP, Sigen Hybrid 3.6 SP, Sigen Hybrid 4.0 SP,
 Sigen Hybrid 4.6 SP, Sigen Hybrid 5.0 SP, Sigen Hybrid 6.0 SP,
 Sigen PV Max 3.0 SP, Sigen PV Max 3.6 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 Energy Controller				
Model	SigenStor EC 3.0 SP	SigenStor EC 3.6 SP	SigenStor EC 4.0 SP	SigenStor EC 4.6 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	3.0 kW	3.68 kW	4.0 kW	4.6 kW
Max. apparent power	3.3 kVA	3.68 kVA	4.4 kVA	5.0 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 15 A	AC 16 A	AC 20 A	AC 22.7 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 Energy Controller		
Model	SigenStor EC 5.0 SP	SigenStor EC 6.0 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	5.0 kW	6.0 kW
Max. apparent power	5.5 kVA	6.6 kVA
Rated frequency	50 Hz	50 Hz
Rated voltage	AC 230 V	AC 230 V
Max. continuous current	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	

Compliance Document

No. D 121007 0007 Rev. 00

Sigen Storage Controller				
Model	SigenStor AC 3.0 SP	SigenStor AC 3.6 SP	SigenStor AC 4.0 SP	SigenStor AC 4.6 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	3.0 kW	3.68 kW	4.0 kW	4.6 kW
Max. apparent power	3.3 kVA	3.68 kVA	4.4 kVA	5.0 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 15 A	AC 16 A	AC 20 A	AC 22.7 A
Power factor	0.8 leading...1...0.8 lagging			

Sigen Storage Controller		
Model	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
Battery Maximum Continuous Current	DC 12 A	DC 12 A
AC output parameters		
Rated active power	5.0 kW	6.0 kW
Max. apparent power	5.5 kVA	6.6 kVA
Rated frequency	50 Hz	50 Hz
Rated voltage	AC 230 V	AC 230 V
Max. continuous current	AC 25 A	AC 30 A
Power factor	0.8 leading...1...0.8 lagging	

Compliance Document

No. D 121007 0007 Rev. 00

Sigen Hybrid Inverter				
Model	Sigen Hybrid 3.0 SP	Sigen Hybrid 3.6 SP	Sigen Hybrid 4.0 SP	Sigen Hybrid 4.6 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	3.0 kW	3.68 kW	4.0 kW	4.6 kW
Max. apparent power	3.3 kVA	3.68 kVA	4.4 kVA	5.0 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 15 A	AC 16 A	AC 20 A	AC 22.7 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 Hybrid Inverter		
Model	Sigen Hybrid 5.0 SP	Sigen Hybrid 6.0 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	5.0 kW	6.0 kW
Max. apparent power	5.5 kVA	6.6 kVA
Rated frequency	50 Hz	50 Hz
Rated voltage	AC 230 V	AC 230 V
Max. continuous current	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	

Compliance Document

No. D 121007 0007 Rev. 00

Sigen PV Inverter				
Model	Sigen PV Max 3.0 SP	Sigen PV Max 3.6 SP	Sigen PV Max 4.0 SP	Sigen PV Max 4.6 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	3.0 kW	3.68 kW	4.0 kW	4.6 kW
Max. apparent power	3.3 kVA	3.68 kVA	4.4 kVA	5.0 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 15 A	AC 16 A	AC 20 A	AC 22.7 A
Power factor	0.8 leading...1...0.8 lagging			

Sigen PV Inverter		
Model	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
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	5.0 kW	6.0 kW
Max. apparent power	5.5 kVA	6.6 kVA
Rated frequency	50 Hz	50 Hz
Rated voltage	AC 230 V	AC 230 V
Max. continuous current	AC 25 A	AC 30 A
Power factor	0.8 leading...1...0.8 lagging	

**Tested
according to:**

IEC 61727:2004
IEC 62116:2014