



Test Verification of Conformity

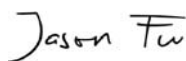
Verification Number: 230609060GZU-VOC001

On the basis of the referenced test report(s), sample(s) tested of the below product have been found to comply with the standards harmonized with the directives listed on this verification at the time the tests were carried out. Other standards and Directives may be relevant to the product. This verification is part of the full test report(s) and should be read in conjunction with it them.

Once compliance with all product relevant  mark directives are verified, including any relevant e.g. risk assessment and production control, the manufacturer may indicate compliance by signing a Declaration of Conformity themselves and applying the mark to products identical to the tested sample(s).

Applicant Name & Address:	Shanghai SIGEN New Energy Technology Co., Ltd. No. 175 Weizhan Road, Lingang New Area, China(Shanghai) Pilot Free Trade Zone, Shanghai, P.R.China
Product Description:	PV Grid inverter & Hybrid Inverter
Ratings & Principle	See Appendix: Test Verification of Conformity
Characteristics:	
Models/Type References:	SigenStor EC x TP, Sigen Hybrid x TP, SigenStor AC x TP, Sigen PV Max x TP (x: 5.0, 6.0, 8.0, 10.0, 12.0, 15.0, 17.0, 20.0, 25.0) SigenStor EC x TPLV, Sigen Hybrid x TPLV, SigenStor AC x TPLV, Sigen PV Max x TPLV (x: 5.0, 6.0, 8.0, 10.0, 12.0)
Brand Name:	 SIGENERGY
Relevant Standards/Directives:	IEC/EN 62109-1: 2010 Safety of power converters for use in photovoltaic power systems – Part 1: General requirements IEC/EN 62109-2: 2011 Safety of power converters for use in photovoltaic power systems – Part 2: Particular requirements for inverters
Verification Issuing Office	Intertek Testing Services Shenzhen Ltd. Guangzhou Branch
Name & Address:	Room 02, & 101/E201/E301/E401/E501/E601/E701/E801 of Room 01 1-8/F., No. 7-2. Caipin Road, Science City, GETDD, Guangzhou, Guangdong, China
Date of Tests:	17 Jul 2023 to 13 Oct. 2023
Test Report Number(s):	230609060GZU-001, 17 Oct. 2023 230609060GZU-002, 17 Oct. 2023

Additional information in Appendix.



Signature

Name: Jason Fu

Position: Supervisor

Date: 24 Oct. 2023

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APPENDIX: Test Verification of Conformity

This is an Appendix to Test Verification of Conformity Number: 230609060GZU-VOC001

SigenStor EC, Sigen Hybrid	5.0 TP	6.0 TP	8.0 TP	10.0 TP	12.0 TP	15.0 TP	17.0 TP	20.0 TP	25.0 TP
Input (PV)									
Recommended max. PV power	8000W	9600W	12800W	16000W	19200W	24000W	27200W	32000W	40000W
Max. input voltage	1100 Vd.c.								
MPPT voltage range	160~1000 Vd.c.								
Start-up voltage	180 Vd.c.								
Nominal DC input voltage	600 Vd.c.								
Max. input current per MPPT	16A								
Max. short-circuit current	20A								
Number of MPP trackers	2			3			4		
Max. input number per MPP tracker	1								
Input (DC Battery)									
Operating voltage range	600~900 Vd.c.								
Battery maximum continuous current	40A								
Output (On Grid)									
Rated output power	5000W	6000W	8000W	10000W	12000W	15000W	17000W	20000W	25000W
Max. apparent power	5500VA	6600VA	8800VA	11000VA	13200VA	16500VA	18700VA	22000VA	27500VA
Max. output current	8.4A	10.0A	13.4A	16.7A	20.1A	25.1A	28.4A	33.4A	41.8A
Rated output voltage	380/220 Va.c., 400/230 Va.c.								
Rated AC grid frequency	50/60Hz								
Adjustable power factor	0.8 leading~ 0.8 lagging								
General Data									
Operating temperature range	-30 ~ + 60 °C								
Degree of protection	IP66								
FW Version	V100R001C21								

Jason Fu

Signature

Name: Jason Fu

Position: Supervisor

Date: 24 Oct. 2023

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SigenStor AC	5.0 TP	6.0 TP	8.0 TP	10.0 TP	12.0 TP	15.0 TP	17.0 TP	20.0 TP	25.0 TP
Input (DC Battery)									
Operating voltage range	600~900 Vd.c.								
Battery maximum continuous current	40A								
Output (On Grid)									
Rated output power	5000W	6000W	8000W	10000W	12000W	15000W	17000W	20000W	25000W
Max. apparent power	5500VA	6600VA	8800VA	11000VA	13200VA	16500VA	18700VA	22000VA	27500VA
Max. output current	8.4A	10.0A	13.4A	16.7A	20.1A	25.1A	28.4A	33.4A	41.8A
Rated output voltage	380/220 Va.c., 400/230 Va.c.								
Rated AC grid frequency	50/60Hz								
Adjustable power factor	0.8 leading~ 0.8 lagging								
General Data									
Operating temperature range	-30 ~ + 60 °C								
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Sigen PV Max	5.0 TP	6.0 TP	8.0 TP	10.0 TP	12.0 TP	15.0 TP	17.0 TP	20.0 TP	25.0 TP
Input (PV)									
Recommended max. PV power	8000W	9600W	12800W	16000W	19200W	24000W	27200W	32000W	40000W
Max. input voltage	1100 Vd.c.								
MPPT voltage range	160~1000 Vd.c.								
Start-up voltage	180 Vd.c.								
Nominal DC input voltage	600 Vd.c.								
Max. input current per MPPT	16A								
Max. short-circuit current	20A								
Number of MPP trackers	2			3			4		
Max. input number per MPP tracker	1								
Output (On Grid)									
Rated output power	5000W	6000W	8000W	10000W	12000W	15000W	17000W	20000W	25000W
Max. apparent power	5500VA	6600VA	8800VA	11000VA	13200VA	16500VA	18700VA	22000VA	27500VA
Max. output current	8.4A	10.0A	13.4A	16.7A	20.1A	25.1A	28.4A	33.4A	41.8A
Rated output voltage	380/220 Va.c., 400/230 Va.c.								
Rated AC grid frequency	50/60Hz								
Adjustable power factor	0.8 leading~ 0.8 lagging								
General Data									
Operating temperature range	-30 ~ + 60 °C								
Degree of protection	IP66								
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SigenStor EC, Sigen Hybrid	5.0 TPLV	6.0 TPLV	8.0 TPLV	10.0 TPLV	12.0 TPLV
Input (PV)					
Recommended max. PV power	8000W	9600W	12800W	16000W	19200W
Max. input voltage	600 Vd.c.				
MPPT voltage range	50~550 Vd.c.				
Start-up voltage	100 Vd.c.				
Nominal DC input voltage	360 Vd.c.				
Max. input current per MPPT	16A				
Max. short-circuit current	20A				
Number of MPP trackers	3				4
Max. input number per MPP tracker	1				
Input (DC Battery)					
Operating voltage range	300~600 Vd.c.				
Battery maximum continuous current	65A				
Output (On Grid)					
Rated output power	5000W	6000W	8000W	10000W	12000W
Max. apparent power	5500VA	6600VA	8800VA	11000VA	13200VA
Max. output current	14.5A	17.4A	23.1A	28.9A	34.7A
Rated output voltage	220/127 Va.c., 230/133 Va.c.				
Rated AC grid frequency	50/60Hz				
Adjustable power factor	0.8 leading~ 0.8 lagging				
General Data					
Operating temperature range	-30 ~ + 60 °C				
Degree of protection	IP66				
FW Version	V100R001C21				

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SigenStor AC	5.0 TPLV	6.0 TPLV	8.0 TPLV	10.0 TPLV	12.0 TPLV
Input (DC Battery)					
Operating voltage range	300~600 Vd.c.				
Battery maximum continuous current	65A				
Output (On Grid)					
Rated output power	5000W	6000W	8000W	10000W	12000W
Max. apparent power	5500VA	6600VA	8800VA	11000VA	13200VA
Max. output current	14.5A	17.4A	23.1A	28.9A	34.7A
Rated output voltage	220/127 Va.c., 230/133 Va.c.				
Rated AC grid frequency	50/60Hz				
Adjustable power factor	0.8 leading~ 0.8 lagging				
General Data					
Operating temperature range	-30 ~ + 60 °C				
Degree of protection	IP66				
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Signen PV Max	5.0 TPLV	6.0 TPLV	8.0 TPLV	10.0 TPLV	12.0 TPLV
Input (PV)					
Recommended max. PV power	8000W	9600W	12800W	16000W	19200W
Max. input voltage	600 Vd.c.				
MPPT voltage range	50~550 Vd.c.				
Start-up voltage	100 Vd.c.				
Nominal DC input voltage	360 Vd.c.				
Max. input current per MPPT	16A				
Max. short-circuit current	20A				
Number of MPP trackers	3				4
Max. input number per MPP tracker	1				
Output (On Grid)					
Rated output power	5000W	6000W	8000W	10000W	12000W
Max. apparent power	5500VA	6600VA	8800VA	11000VA	13200VA
Max. output current	14.5A	17.4A	23.1A	28.9A	34.7A
Rated output voltage	220/127 Va.c., 230/133 Va.c.				
Rated AC grid frequency	50/60Hz				
Adjustable power factor	0.8 leading~ 0.8 lagging				
General Data					
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