

Certificate of Conformity

Certificate Number: CN-PV-230555

On the basis of the tests undertaken, the sample<s> of the below product have been found to comply with the requirements of the referenced specification<s>/standard<s> at the time the tests were carried out. It does not imply that Intertek has performed any surveillance or control of the manufacture(s). The manufacturer(s) shall ensure that the manufacturing process assures compliance of the production units with the examined products mentioned in this certificate.

Applicant: Shanghai SIGEN New Energy Technology Co., Ltd.

No. 175 Weizhan Road, Lingang New Area, China(Shanghai) Pilot Free Trade Zone,

Shanghai, P.R.China

Manufacturer: 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:

Ratings & Principle See ap

Characteristics:

Brand Name<s>:

Model:

PV Hybrid inverter / AC coupled inverter See appendix of Certificate of Conformity

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)

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SIGENERGY

Product Complies with:

Commission Regulation (EU) 2016/631 of 14 April 2016 (NC RfG) establishing a network code on the requirements for connecting generating units to the network (Journal of Laws UE L 112/1 of 27 April 2016);

PSE:18 December 2018: General Application Requirements resulting from the Regulation of the EU Commission 2016/631 of April 14, 2016 establishing the network code on the requirements for connecting generating units to the grid approved by the Decision of the President of the Energy Regulatory Office DRE.WOSE.7128.550.2.2018.ZJ of January 2, 2019;

PTPiREE, 2021-04: Conditions and procedures for the use of certificates in the process of connecting power generation modules to power grids.

Type approval for Type A PPMs

Type 1a product certification scheme according to ISO/IEC 17067:2013

Certification procedure SMS-PV-OP-19 Intertek Testing Services Ltd. Shanghai

West Area, 2nd Floor, No. 707, Zhangyang Road

China (Shanghai) Pilot Free Trade Zone, Shanghai, P. R. China Accredited by ACCREDIA in accordance with ISO/IEC 17065:2012

230705118GZU-001, 230705116GZU-001

Test Report No.<s>:

Certificate Issuing Office

Name & Address:

Additional information in Appendix.

Signature

Certification Manager: Grady Ye Issue Date: 27 September 2023 Valid Until: 26 September 2028 ACCREDIA 5

PRD N° 306B



This is an Appendix to Certificate of Conformity Number: CN-PV-230555

Product Complies with:	EN 50549-1:2019 Requirements for generating plants to be connected					
	in parallel with distribution networks					
	Part 1: Connection to a LV distribution network - Generating					
	plants up to and including Type B					

The following functionalities have been assessed based on the rules for the use of certificate for Power Park Modules (PPMs), as specified in chapter 7 and 9 of the PTPIREE 2021-04. The functions denoted "Not Applicable" in the table of chapter 7 has not been included.

Capability	NC RfG	PSE 2018-12	Туре А	Assessment result
Frequency range	13.1(a)	13.1(a)(i)	х	Compliant
Rate of Change of Frequency (ROCOF) Withstand capability, df/dt	13.1(b)	13.1(b)	x	Compliant
Remote cessation of active power	13.6	13.6	х	Compliant
Limited Frequency Sensitive Mode – Over frequency (LFSM-O)	13.2	13.2(a).(b).(f)	x	Compliant



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Ratings & Principle Characteristics:

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			0	ο ¬	1100 Vd.c.				
MPPT voltage range	160~1000 Vd.c.								
Start-up voltage		-//			180 Vd.c.				
Nominal DC input voltage		4			600 Vd.c.		1		
Max. input current per MPPT		#		W.	16A	1	- 1		
Max. short-circuit current		#		-	20A		- 1	h —	
Number of MPP trackers		2		_	3			4	
Max. input number per MPP tracker				0 0	1		-	0	
Input (DC Battery)		0		0		n .	1	D .	
Operating voltage range		1		6	600~900 Vd.c	2.	- 1	7	
Battery maximum continuous current		1			40A		-//		
Output (On Grid)		T			7//		_///		
Rated output power	5000W	6000W	8000W	10000W	12000W	15000W	17000W	20000W	25000W
Max. apparent power	5500W	6600W	8800W	11000W	13200W	16500W	18700W	22000W	27500W
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 le	ading~ 0.8 la	igging			
General Data	<u> </u>								
Operating temperature range					-30 ~ + 60 °C				
Degree of protection	IP66								
FW Version	V100R001C21								



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Ratings & Principle Characteristics:

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)		- 10	7		I	10				
Rated output power	5000W	6000W	8000W	10000W	12000W	15000W	17000W	20000W	25000W	
Max. apparent power	5500W	6600W	8800W	11000W	13200W	16500W	18700W	22000W	27500W	
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		0.		0	- 1	0	- I	0		
Operating temperature range	-30 ~ + 60 °C									
Degree of protection	IP66									
FW Version	V100R001C21									
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Ratings & Principle Characteristics:

17.0 TP	20.0 TP	25.0 TP							
27200W	32000W	40000W							
27200W	32000W	40000W							
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A									
A									
1									
A									
	N.								
	0								
	4								
	0								
	10								
17000W	20000W	25000W							
18700W	22000W	27500W							
28.4A	33.4A	41.8A							
380/220 Va.c., 400/230 Va.c.									
50/60Hz									
0.8 leading~ 0.8 lagging									
-30 ~ + 60 °C									
IP66									
V100R001C21									
	18700W	17000W 20000W 18700W 22000W							