

28 June 2024

Shanghai SIGEN New Energy Technology Co. Ltd.
No. 175 Weizhan Road, Lingang New Area
China(Shanghai) Pilot Free Trade Zone, Shanghai
CHINA

Attention: Dulce Chen, Intertek Testing Services Shenzhen Ltd. Guangzhou Branch

CERTIFICATION OF ELECTRICAL EQUIPMENT

It is our pleasure to issue you with the enclosed Certificate of Suitability EESS-240477-0.

Please check and ensure the details are correct in accordance with your application.

It was identified that the applied equipment was categorised as in-scope level 1 equipment, as defined in AS/NZS 4417.2. The ERAC Equipment Safety Rules do not require these certification details to be included to the EESS National Database for this category of equipment. This does not negate any requirements for responsible supplier or EESS equipment declarations/registrations on the eess.gov.au website. Due to this, certificate details can be found on the JAS-ANZ online [certificate register](#) and EESS Conformity Certification will not upload the certificate details to the National Database.

We remind you that the Regulatory Compliance Mark (RCM) must be used in accordance with its conditions of use as set out in the latest edition of [AS/NZS 4417.1](#).

This certification is based on type testing, modification to the certified product in any way must be notified to EESS Conformity Certification for endorsement. Details of the modification must be advised by completing and submitting the application via our Online Application System (OAS) with your login credentials.

Any change to the name or address of the certificate holder must be notified to EESS Conformity Certification within one calendar month. Changes may be advised by completing and submitting the application via our Online Application System (OAS) with your login credentials.

An application for the transfer of Certificate from the existing Certificate Holder to another/new Certificate Holder may be made to EESS Conformity Certification by completing and submitting the application via our Online Application System (OAS) with your login credentials.

Finally, please use the QR code below to take our two-minute survey and comment on our service.



Should you have any further queries, please contact us.

Yours sincerely,



Lloyd Knipe

Managing Director

Conformity Certification Services Pty Ltd
trading as EESS Conformity Certification

We'd love to know what you thought of our service. Please scan to fill in a brief survey or visit www.eessconformity.com



Certificate No.: EESS-240477-0

CERTIFICATE OF SUITABILITY

Certificate Holder: Shanghai SIGEN New Energy Technology Co. Ltd.
No. 175 Weizhan Road, Lingang New Area
China(Shanghai) Pilot Free Trade Zone, Shanghai
CHINA

Regulatory Definition: Inverter System for CEC Listing
Product Type: Solar Energy storage system (PV + Hybrid Inverter + Pre-assembled BESS).
Trade Name(s): Sigenergy
Model No(s): Refer to Certificate Addendum for model list
Ratings: PV Input: 1100Vdc Max, MPPT V range: 160-1000Vdc, MPPTx2-4, Idc Max: 16A each, PV Isc: 20A each.
LiFePO4 SigenStor Battery BAT 5.0/8.0 (1-6 Modules), Capacity each 5.38/8.06 kWh, Vdc range 600-900Vdc, Charge/discharge 2500-4000W, 48.36kWh Max.
AC Output: 3 Ph, 380-400/220-230V~ 50/60Hz 7.2-43.4A~ Max, 5- 29.9kVA Max, Class I IP66, PF 0.8 lead/lag, Operating Temperature Max 55C Max.
The Hardware/ Software version: V100R001C21/ V100R001C21.
Refer to Certificate Addendum for specific ratings.

Standard(s): IEC 62109-1:2010 (Reference Test report 240306043GZU-001) and IEC 62109-2:2011 (Reference Test report 240306043GZU-002) and AS/NZS 4777.2:2020 + A1 (Reference Test report 230705144GZU-001).

Condition(s): To be installed by licensed installers in accordance with ANZ & CEC wiring rules, and as per manufacturer's instructions. This Certificate does not include any installation requirements.

Required Marking: The Regulatory Compliance Mark (RCM) in accordance with its conditions of use as set out in the latest edition of AS/NZS 4417.1

Date of Issue: 28 June 2024

Valid Until: 27 July 2029

This certificate is issued by Conformity Certification Services Pty Ltd (CCS) in accordance with the CCS Electrical Product Safety Certification Scheme (EPSC-CCS) as accredited by JAS-ANZ under ISO/IEC 17065. CCS certifies that the Electrical Equipment as described on this certificate complies with the minimum essential safety requirements for which the application has been made. This certificate is not issued under the regulator's recognition for RECS. Certification is based on type testing and within our terms and conditions.

For and on behalf of
Conformity Certification Services Pty Ltd
trading as EESS Conformity Certification



Certificate No.: EESS-240477-0

CERTIFICATE OF SUITABILITY

SigenStor-5T-	5	8	10	13	16	21	24	29	32	37	40	48	Units
Energy Controller Model	SigenStor EC 5.0 TP AU												
Number of energy controller	1												pcs
Max. DC input voltage	1100												V
Nominal DC input voltage	600												V
Start-up voltage	180												V
MPPT voltage range	160 ~ 1000												V
Number of MPP. Trackers	2												
Number of PV strings per MPPT	1												
Max. input current per MPPT	16												A
Max. short circuit current per MPPT	20												A
DC input (from BAT)													
Operating voltage range	600 ~ 900												V
AC output (on-grid)													

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Certificate No.: EESS-240477-0

CERTIFICATE OF SUITABILITY

Nominal output voltage	380/220, 400/230												V
Nominal grid frequency	50 / 60												Hz
Power factor	0.8 leading ~ 0.8 lagging												
Nominal output current	7.2												A
Max. output current	7.2												A
Normal output power	5												kW
Max. output apparent power	5												kVA
Battery model #1	SigenStor BAT 5.0												
Number of battery modules	1	0	2	1	0	1	0	1	0	1	0	0	pcs
Battery model #2	SigenStor BAT 8.0												
Number of battery modules	0	1	0	1	2	2	3	3	4	4	5	6	pcs
Total energy capacity	5.38	8.06	10.76	13.44	16.12	21.50	24.18	29.56	32.24	37.62	40.30	48.36	kWh
SigenStor-6T-	5	8	10	13	16	21	24	29	32	37	40	48	Units
Energy Controller Model	SigenStor EC 6.0 TP AU												
Number of energy controller	1												pcs

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CERTIFICATE OF SUITABILITY

Max. DC input voltage	1100	V
Nominal DC input voltage	600	V
Start-up voltage	180	V
MPPT voltage range	160 ~ 1000	V
Number of MPP Trackers	2	
Number of PV strings per MPPT	1	
Max. input current per MPPT	16	A
Max. short circuit current per MPPT	20	A
DC input (from BAT)		
Operating voltage range	600 ~ 900	V
AC output (on-grid)		
Nominal output voltage	380/220, 400/230	V
Nominal grid frequency	50 / 60	Hz
Power factor	0.8 leading ~ 0.8 lagging	
Nominal output current	9.1	A
Max. output current	10.0	A

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Certificate No.: EESS-240477-0

CERTIFICATE OF SUITABILITY

Normal output power	6												kW
Max. output apparent power	6.6												kVA
Battery model #1	SigenStor BAT 5.0												
Number of battery modules	1	0	2	1	0	1	0	1	0	1	0	0	pcs
Battery model #2	SigenStor BAT 8.0												
Number of battery modules	0	1	0	1	2	2	3	3	4	4	5	6	pcs
Total energy capacity	5.38	8.06	10.76	13.44	16.12	21.50	24.18	29.56	32.24	37.62	40.30	48.36	kWh
SigenStor-8T-	5	8	10	13	16	21	24	29	32	37	40	48	Units
Energy Controller Model	SigenStor EC 8.0 TP AU												
Number of energy controller	1												pcs
Max. DC input voltage	1100												V
Nominal DC input voltage	600												V
Start-up voltage	180												V
MPPT voltage range	160 ~ 1000												V

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CERTIFICATE OF SUITABILITY

Number of MPP Trackers	2	
Number of PV strings per MPPT	1	
Max. input current per MPPT	16	A
Max. short circuit current per MPPT	20	A
DC input (from BAT)		
Operating voltage range	600 ~ 900	V
AC output (on-grid)		
Nominal output voltage	380/220, 400/230	V
Nominal grid frequency	50 / 60	Hz
Power factor	0.8 leading ~ 0.8 lagging	
Nominal output current	12.2	A
Max. output current	13.4	A
Norminal output power	8	kW
Max. output apparent power	8.8	kVA
Battery model #1	SigenStor BAT 5.0	

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CERTIFICATE OF SUITABILITY

Number of battery modules	1	0	2	1	0	1	0	1	0	1	0	0	pcs
Battery model #2	SigenStor BAT 8.0												
Number of battery modules	0	1	0	1	2	2	3	3	4	4	5	6	pcs
Total energy capacity	5.38	8.06	10.76	13.44	16.12	21.50	24.18	29.56	32.24	37.62	40.30	48.36	kWh
SigenStor-10T-	5	8	10	13	16	21	24	29	32	37	40	48	Units
Energy Controller Model	SigenStor EC 10.0 TP AU												
Max. DC input voltage	1100												V
Nominal DC input voltage	600												V
Start-up voltage	180												V
MPPT voltage range	160 ~ 1000												V
Number of MPP. Trackers	3												
Number of PV strings per MPPT	1												
Max. input current per MPPT	16												A

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Max. short circuit current per MPPT	20												A
DC input (from BAT)													
Operating voltage range	600 ~ 900												V
AC output (on-grid)													
Nominal output voltage	380/220, 400/230												V
Nominal grid frequency	50 / 60												Hz
Power factor	0.8 leading ~ 0.8 lagging												
Nominal output current	14.4												A
Max. output current	14.4												A
Number of energy controller	1												pcs
Normal output power	9.999												kW
Max. output apparent power	9.999												kVA
Battery model #1	SigenStor BAT 5.0												
Number of battery modules	1	0	2	1	0	1	0	1	0	1	0	0	pcs
Battery model #2	SigenStor BAT 8.0												

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Certificate No.: EESS-240477-0

CERTIFICATE OF SUITABILITY

Number of battery modules	0	1	0	1	2	2	3	3	4	4	5	6	pcs
Total energy capacity	5.38	8.06	10.76	13.44	16.12	21.50	24.18	29.56	32.24	37.62	40.30	48.36	kWh
SigenStor-12T-	5	8	10	13	16	21	24	29	32	37	40	48	Units
Energy Controller Model	SigenStor EC 12.0 TP AU												
Number of energy controller	1												pcs
Max. DC input voltage	1100												V
Nominal DC input voltage	600												V
Start-up voltage	180												V
MPPT voltage range	160 ~ 1000												V
Number of MPP Trackers	3												
Number of PV strings per MPPT	1												
Max. input current per MPPT	16												A
Max. short circuit current per MPPT	20												A
DC input (from BAT)													

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CERTIFICATE OF SUITABILITY

Operating voltage range	600 ~ 900												V
AC output (on-grid)													
Nominal output voltage	380/220, 400/230												V
Nominal grid frequency	50 / 60												Hz
Power factor	0.8 leading ~ 0.8 lagging												
Nominal output current	18.2												A
Max. output current	20.1												A
Norminal output power	12.0												kW
Max. output apparent power	13.2												kVA
Battery model #1	SigenStor BAT 5.0												
Number of battery modules	1	0	2	1	0	1	0	1	0	1	0	0	pcs
Battery model #2	SigenStor BAT 8.0												
Number of battery modules	0	1	0	1	2	2	3	3	4	4	5	6	pcs
Total energy capacity	5.38	8.06	10.76	13.44	16.12	21.50	24.18	29.56	32.24	37.62	40.30	48.36	kWh
SigenStor-15T-	5	8	10	13	16	21	24	29	32	37	40	48	Units

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Certificate No.: EESS-240477-0

CERTIFICATE OF SUITABILITY

Energy Controller Model	SigenStor EC 15.0 TP AU	
Number of energy controller	1	pcs
Max. DC input voltage	1100	V
Nominal DC input voltage	600	V
Start-up voltage	180	V
MPPT voltage range	160 ~ 1000	V
Number of MPP Trackers	3	
Number of PV strings per MPPT	1	
Max. input current per MPPT	16	A
Max. short circuit current per MPPT	20	A
DC input (from BAT)		
Operating voltage range	600 ~ 900	V
AC output (on-grid)		
Nominal output voltage	380/220, 400/230	V
Nominal grid frequency	50 / 60	Hz

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Certificate No.: EESS-240477-0

CERTIFICATE OF SUITABILITY

Power factor	0.8 leading ~ 0.8 lagging												
Nominal output current	21.7												A
Max. output current	21.7												A
Norminal output power	15.0												kW
Max. output apparent power	15.0												kVA
Battery model #1	SigenStor BAT 5.0												
Number of battery modules	1	0	2	1	0	1	0	1	0	1	0	0	pcs
Battery model #2	SigenStor BAT 8.0												
Number of battery modules	0	1	0	1	2	2	3	3	4	4	5	6	pcs
Total energy capacity	5.38	8.06	10.76	13.44	16.12	21.50	24.18	29.56	32.24	37.62	40.30	48.36	kWh
SigenStor-17T-	5	8	10	13	16	21	24	29	32	37	40	48	Units
Energy Controller Model	SigenStor EC 17.0 TP AU												
Number of energy controller	1												pcs
Max. DC input voltage	1100												V
Nominal DC input voltage	600												V

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Start-up voltage	180	V
MPPT voltage range	160 ~ 1000	V
Number of MPP. Trackers	4	
Number of PV strings per MPPT	1	
Max. input current per MPPT	16	A
Max. short circuit current per MPPT	20	A
DC input (from BAT)		
Operating voltage range	600 ~ 900	V
AC output (on-grid)		
Nominal output voltage	380/220, 400/230	V
Nominal grid frequency	50 / 60	Hz
Power factor	0.8 leading ~ 0.8 lagging	
Nominal output current	25.8	A
Max. output current	28.4	A
Norminal output power	17.0	kW
Max. output apparent power	18.7	kVA

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Certificate No.: EESS-240477-0

CERTIFICATE OF SUITABILITY

Battery model #1	SigenStor BAT 5.0												
Number of battery modules	1	0	2	1	0	1	0	1	0	1	0	0	pcs
Battery model #2	SigenStor BAT 8.0												
Number of battery modules	0	1	0	1	2	2	3	3	4	4	5	6	pcs
Total energy capacity	5.38	8.06	10.76	13.44	16.12	21.50	24.18	29.56	32.24	37.62	40.30	48.36	kWh
SigenStor-20T-	5	8	10	13	16	21	24	29	32	37	40	48	Units
Energy Controller Model	SigenStor EC 20.0 TP AU												
Number of energy controller	1												pcs
Max. DC input voltage	1100												V
Nominal DC input voltage	600												V
Start-up voltage	180												V
MPPT voltage range	160 ~ 1000												V
Number of MPP. Trackers	4												
Number of PV strings per MPPT	1												

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Certificate No.: EESS-240477-0

CERTIFICATE OF SUITABILITY

Max. input current per MPPT	16												A
Max. short circuit current per MPPT	20												A
DC input (from BAT)													
Operating voltage range	600 ~ 900												V
AC output (on-grid)													
Nominal output voltage	380/220, 400/230												V
Nominal grid frequency	50 / 60												Hz
Power factor	0.8 leading ~ 0.8 lagging												
Nominal output current	30.4												A
Max. output current	33.4												A
Normal output power	20.0												kW
Max. output apparent power	22.0												kVA
Battery model #1	SigenStor BAT 5.0												
Number of battery modules	1	0	2	1	0	1	0	1	0	1	0	0	pcs
Battery model #2	SigenStor BAT 8.0												

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Certificate No.: EESS-240477-0

CERTIFICATE OF SUITABILITY

Number of battery modules	0	1	0	1	2	2	3	3	4	4	5	6	pcs
Total energy capacity	5.38	8.06	10.76	13.44	16.12	21.50	24.18	29.56	32.24	37.62	40.30	48.36	kWh
SigenStor-25T-	5	8	10	13	16	21	24	29	32	37	40	48	Units
Energy Controller Model	SigenStor EC 25.0 TP AU												
Number of energy controller	1												pcs
Max. DC input voltage	1100												V
Nominal DC input voltage	600												V
Start-up voltage	180												V
MPPT voltage range	160 ~ 1000												V
Number of MPP Trackers	4												
Number of PV strings per MPPT	1												
Max. input current per MPPT	16												A
Max. short circuit current per MPPT	20												A
DC input (from BAT)													

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Certificate No.: EESS-240477-0

CERTIFICATE OF SUITABILITY

Operating voltage range	600 ~ 900												V
AC output (on-grid)													
Nominal output voltage	380/220, 400/230												V
Nominal grid frequency	50 / 60												Hz
Power factor	0.8 leading ~ 0.8 lagging												
Nominal output current	38.0												A
Max. output current	41.8												A
Norminal output power	25.0												kW
Max. output apparent power	27.5												kVA
Battery model #1	SigenStor BAT 5.0												
Number of battery modules	1	0	2	1	0	1	0	1	0	1	0	0	pcs
Battery model #2	SigenStor BAT 8.0												
Number of battery modules	0	1	0	1	2	2	3	3	4	4	5	6	pcs
Total energy capacity	5.38	8.06	10.76	13.44	16.12	21.50	24.18	29.56	32.24	37.62	40.30	48.36	kWh
SigenStor-30T-	5	8	10	13	16	21	24	29	32	37	40	48	Units
Energy Controller Model	SigenStor EC 30.0 TP AU												

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Certificate No.: EESS-240477-0

CERTIFICATE OF SUITABILITY

Number of energy controller	1	pcs
Max. DC input voltage	1100	V
Nominal DC input voltage	600	V
Start-up voltage	180	V
MPPT voltage range	160 ~ 1000	V
Number of MPP. Trackers	4	
Number of PV strings per MPPT	1	
Max. input current per MPPT	16	A
Max. short circuit current per MPPT	20	A
DC input (from BAT)		
Operating voltage range	600 ~ 900	V
AC output (on-grid)		
Nominal output voltage	380/220, 400/230	V
Nominal grid frequency	50 / 60	Hz
Power factor	0.8 leading ~ 0.8 lagging	

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Certificate No.: EESS-240477-0

CERTIFICATE OF SUITABILITY

Nominal output current	43.4												A
Max. output current	43.4												A
Norminal output power	29.999												kW
Max. output apparent power	29.999												kVA
Battery model #1	SigenStor BAT 5.0												
Number of battery modules	1	0	2	1	0	1	0	1	0	1	0	0	pcs
Battery model #2	SigenStor BAT 8.0												
Number of battery modules	0	1	0	1	2	2	3	3	4	4	5	6	pcs
Total energy capacity	5.38	8.06	10.76	13.44	16.12	21.50	24.18	29.56	32.24	37.62	40.30	48.36	kWh

Sigen Energy Controller:

SigenStor EC x.0 TP AU	5	6	8	10	12	15	17	20	25	30	Units
DC input (from PV)											
Max. PV power	8000	9600	12800	16000	19200	24000	27200	32000	40000	45000	W
Max. DC input voltage	1100										V
Nominal DC input voltage	600										V
Start-up voltage	180										V

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Certificate No.: EESS-240477-0

CERTIFICATE OF SUITABILITY

MPPT voltage range	160 ~ 1000										V
Number of MPP Trackers	2		3			4					
Number of PV strings per MPPT	1										
Max. input current per MPPT	16										A
Max. short circuit current per MPPT	20										A
DC input (from BAT)											
Operating voltage range	600 ~ 900										V
AC output (on-grid)											
Nominal output power	5000	6000	8000	9999	12000	15000	17000	20000	25000	29999	W
Max. output apparent power	5000	6600	8800	9999	13200	15000	18700	22000	27500	29999	VA
Nominal output current	7.2	9.1	12.2	14.4	18.2	21.7	25.8	30.4	38.0	43.4	A
Max. output current	7.2	10.0	13.4	14.4	20.1	21.7	28.4	33.4	41.8	43.4	A
Nominal output voltage	380/220, 400/230										V
Nominal grid frequency	50 / 60										Hz
Power factor	0.8 leading ~ 0.8 lagging										
General data											
Storage temperature range	-40 ~ 70										°C

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CERTIFICATE OF SUITABILITY

Operating temperature range	-30 ~ 60	°C
Ingress protection rating	IP66	
Dimensions (W/H/D)	700 / 300 / 245	mm

Sigen Battery:

SigenStor BAT	5.0	8.0	Units
Performance specification			
Battery type	Li-ion		
Battery energy capacity	5.38	8.06	kWh
Operating voltage range	600 ~ 900		V
Max. charge / discharge power	2500	4000	W
General data			
Storage temperature range	-25 ~ 60		°C
Operating temperature range	-20 ~ 55		°C
Ingress protection rating	IP66		

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