Test Verification of Conformity

Verification Number: 230721033GZU -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 CE 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:	Grid interactive inverter
Ratings & Principle Characteristics:	See Appendix: Test Verification of Conformity
Models/Type References:	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
Brand Name:	SIGENERGY
Relevant Standards/Directives:	Engineering Recommendation G100 Issue 2 2022 Amendment 1 Technical Requirements for Customers' Export and Import Limitation Schemes
Verification Issuing Office Name & Address:	Intertek Testing Services Shenzhen Ltd. Guangzhou Branch 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:	14 Jul. 2023 – 04 Sep. 2023
Test Report Number(s):	230721033GZU-001

Additional information in Appendix.

Jason Fu

Signature

Name: Jason Fu
Position: Supervisor
Date: 06 Sep. 2023

APPENDIX: Test Verification of Conformity

This is an Appendix to Test Verification of Conformity Number: 230721033GZU-VOC001

Ratings & Principle Characteristics:

SigenStor EC, Sigen Hybrid	3.0 SP	3.6 SP	4.0 SP	4.6 SP	5.0 SP	6.0 SP	Units
DC input (from PV)							
Max. PV power	6000	7360	8000	9200	10000	12000	W
Max. DC input voltage	600						V
Nominal DC input voltage	350						V
Start-up voltage	100						V
MPPT voltage range	50 ~ 550						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	300 ~ 600						V
Operating current	12						A
AC output (on-grid)							
Nominal output power	3000	3680	4000	4600	5000	6000	W
Max. output apparent power	3300	3680	4400	5000	5500	6600	VA
Nominal output current	13.6	16	18.2	20.9	22.7	27.3	A
Max. output current	15	16	20	22.7	25	30	A
Nominal output voltage	220 / 230 / 240						V
Nominal grid frequency	50 / 60						Hz
Power factor	0.8 leading ~ 0.8 lagging						
General data							
Storage temperature range	-40 ~ 70						°C
Operating temperature range	-30 ~ 60						°C
Ingress protection rating	IP66						
FW Version	V100R001C00						

Jason Fu

Signature

Name: Jason Fu
Position: Supervisor
Date: 06 Sep. 2023

APPENDIX: Test Verification of Conformity

This is an Appendix to Test Verification of Conformity Number: 230721033GZU-VOC001

Ratings & Principle Characteristics:

SigenStor AC	3.0 SP	3.6 SP	4.0 SP	4.6 SP	5.0 SP	6.0 SP	Units
DC input (from BAT)							
Operating voltage range	300 ~ 600						V
Operating current	12						A
AC output (on-grid)							
Nominal output power	3000	3680	4000	4600	5000	6000	W
Max. output apparent power	3300	3680	4400	5000	5500	6600	VA
Nominal output current	13.6	16	18.2	20.9	22.7	27.3	A
Max. output current	15	16	20	22.7	25	30	A
Nominal output voltage	220 / 230 / 240						V
Nominal grid frequency	50 / 60						Hz
Power factor	0.8 leading ~ 0.8 lagging						
General data							
Storage temperature range	-40 ~ 70						°C
Operating temperature range	-30 ~ 60						°C
Ingress protection rating	IP66						
FW Version	V100R001C00						

List of installation components (CLS):	
Type of appliance/ Installation…….:	Single Phase Energy meter
Manufacturer / Distributor / Installer:	Zhejiang Eastron Electronic Co., Ltd
Brand……:	EASTRON
Model/Type……..:	SDM230-Modbus
Rating……:	230V AC, 0.5~10(100)A AC 50Hz, 1000imp/kWh, CAT III Power accuracy:1% Firmware Version: 02 01.02

Jason Fu

Signature

Name: Jason Fu
Position: Supervisor
Date: 06 Sep. 2023

APPENDIX: Test Verification of Conformity

This is an Appendix to Test Verification of Conformity Number: 230721033GZU-VOC001

Ratings & Principle Characteristics:

Sigen PV Max x SP	3.0 SP	3.6 SP	4.0 SP	4.6 SP	5.0 SP	6.0 SP	Units
DC input (from PV)							
Max. PV power	6000	7360	8000	9200	10000	12000	W
Max. DC input voltage	600						V
Nominal DC input voltage	350						V
Start-up voltage	100						V
MPPT voltage range	50 ~ 550						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
AC output (on-grid)							
Nominal output power	3000	3680	4000	4600	5000	6000	W
Max. output apparent power	3300	3680	4400	5000	5500	6600	VA
Nominal output current	13.6	16	18.2	20.9	22.7	27.3	A
Max. output current	15	16	20	22.7	25	30	A
Nominal output voltage	220 / 230 / 240						V
Nominal grid frequency	50 / 60						Hz
Power factor	0.8 leading ~ 0.8 lagging						
General data							
Storage temperature range	-40 ~ 70						°C
Operating temperature range	-30 ~ 60						°C
Ingress protection rating	IP66						
FW Version	V100R001C00						

Jason Fu

Signature

Name: Jason Fu
Position: Supervisor
Date: 06 Sep. 2023