


# 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  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.<br>No. 175 Weizhan Road, Lingang New Area, China(Shanghai) Pilot Free Trade Zone,<br>Shanghai, P.R.China   |
| Product Description:                | Grid interactive inverter   |
| Ratings & Principle                 | See Appendix: Test Verification of Conformity   |
| Characteristics:                    |   |
| Models/Type References:             | SigenStor EC 3.0 SP, SigenStor EC 3.6 SP, SigenStor EC 4.0 SP, SigenStor EC 4.6 SP,<br>SigenStor EC 5.0 SP, SigenStor EC 6.0 SP, SigenStor AC 3.0 SP, SigenStor AC 3.6 SP,<br>SigenStor AC 4.0 SP, SigenStor AC 4.6 SP, SigenStor AC 5.0 SP, SigenStor AC 6.0 SP,<br>Sigen Hybrid 3.0 SP, Sigen Hybrid 3.6 SP, Sigen Hybrid 4.0 SP, Sigen Hybrid 4.6 SP, Sigen<br>Hybrid 5.0 SP, Sigen Hybrid 6.0 SP, Sigen PV Max 3.0 SP, Sigen PV Max 3.6 SP, Sigen PV<br>Max 4.0 SP, Sigen PV Max 4.6 SP, Sigen PV Max 5.0 SP, Sigen PV Max 6.0 SP |
| Brand Name:                         | <br>Sigen Energy   |
| Relevant Standards/Directives:      | Engineering Recommendation G100<br>Issue 2 2022 Amendment 1<br>Technical Requirements for Customers' Export and Import Limitation Schemes   |
| 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.<br>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**

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## 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

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## 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<br>50Hz, 1000imp/kWh, CAT III<br>Power accuracy:1%<br>Firmware Version: 02 01.02 |

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## 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                  |        |        |        |        |        | ℃     |
| Operating temperature range         | -30 ~ 60                  |        |        |        |        |        | ℃     |
| Ingress protection rating           | IP66                      |        |        |        |        |        |       |
| FW Version                          | V100R001C00               |        |        |        |        |        |       |

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