



BUREAU
VERITAS

Type Certificate

Applicant

Sigenergy Technology Co., Ltd.
No.175 Weizhan Road, Lingang New Area
China (Shanghai) Pilot Free Trade Zone Shanghai
P.R.China

Type of product	Grid-tied PV inverter / Battery converter	Sigen PV {50 ~ 150}M{1/2} / Sigen PV {50 ~ 150}M{1/2}-{HYA/HYB}
Technical data	Max. apparent power S_{Emax}	150 kW
	Nominal voltage	230 / 400 ³⁾ or 480 V (for further details, see Annex)
	Nominal frequency	50 Hz
Technical data determined by measurements	Max. active power P_{Emax} / Max. active power peak P_{600}	¹⁾ (for further details, see Annex)
Firmware version		V100R001
Validated model	Model file	SIGEN Rocky encrypted V1_0_2.pfd
	Identification number (MD5)	00b3cb9cfc37e7757f2bbdd7a10842a0

Connection rule

VDE-AR-N 4110:2023-09 – Technical requirements for the connection and operation of customer installations to the medium voltage network (TAR medium voltage) [1]
VDE-AR-N 4120:2018-11 – Technical requirements for the connection and operation of customer installations to the high voltage network (TAR high voltage) [2]

Applicable standards / directives

Technical guidelines: FGW TR 3 Rev. 26 [3], FGW TR 4 Rev. 10 [4], FGW TR 8 Rev. 09 [5]

The power generating units, stated in the certificate, were tested and certified according to the technical guidelines referenced to the grid connection regulation. The electrical characteristics fulfil the requirements of the grid connection regulation:

- Quasi-steady-state operation
- Dynamic network stability (reactive current characteristic according to TCR medium voltage & TCR high voltage)
- Active power output and network security management
- Active power adjustment as a function of the grid frequency
- Protection technology and protection settings on generating unit level.
- Power quality

Restrictions or deviations: see annex of certificate

The manufacturer has provided proof of certification of the quality management system of his production facility in accordance with ISO 9001

The certificate contains the following information:

- technical data of the power generating unit, the auxiliary equipment used and the software version used;
- schematic structure of the power generating units;
- summarized information on the properties of the power generating unit.

The certificate is comprised of 200 pages (including Annex of 199 pages).

Project number: 25TH0137

Certificate number: U25-0444_0

Issued: 2025-04-29

Certification Program: NSOP-0032-DEU-ZE-V10

Valid until:

2030-04-28

Accreditation



Accredited certification body by Deutsche Akkreditierungsstelle GmbH (DAKkS) according to ISO/IEC 17065. The accreditation is valid only for the scope listed in the annex of the accreditation certificate D-ZE-12024-01-00. The Deutsche Akkreditierungsstelle GmbH (DAKkS) is signatory of the multilateral arrangements of EA, ILAC and IAF for mutual recognition.

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