Unit Certificate

FGW TG8 EZE

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No.: 968/GI 2269.01/25 Grid Integration of Distributed Energy Resources

Certificate Holder	Ginlong Technologies Co., Ltd. No.57 Jintong Road, Binhai, (seafront), Industrial Park, Xiangshan Ningbo 315712 Zhejiang China
Subject	Grid-Connected PV inverter S6-GC80K, S6-GC100K, S6-GC110K, S6-GC125K, S6-GC125K-HV
Codes and Standards	VDE-AR-N 4110:2023 FGW TG 8:2019 Revision 9 FGW TG 4:2023 Revision 10 FGW TG 3:2023 Revision 26
Scope and result	The power generating units mentioned above meet the requirements of standards listed above. The conformity is declared by following documents: Evaluation Report-No .: 968/GI 2269.01/25, dated 2025-09-12 Validation Report-No .: 968/GI 2269.00/25, dated 2025-09-12 Test Report No : CN2459XE 001, dated 2025-03-06 The manufacturer has provided proof of certification of the quality management system of his production facility in accordance with ISO 9001.
Specific provisions	The corresponding conditions and deviations are listed on the following pages of the certificate.

Valid until 2030-09-12

The issue of this certificate is based upon an evaluation in accordance with the Certification Program CERT GI3 V5.0:2021-11 in its actual version, whose results are documented in Report No. 968/GI 2269.01/25 dated 2025-09-12. This certificate is specifically valid for the above mentioned system only. It becomes invalid, if any unapproved changes are implemented without prior assessment/approval by the certification body. Authenticity and validity of this certificate can be verified through the above indicated QR-code or at http://www.fs-products.com.

Köln, 2025-09-12

TÜV Rheinland Industrie Service GmbH
Bereich Automation
Funktionale Sicherheit
Am Grauen Stein, 51105 Köln

Certification Body Safety & Security for Automation & Grid

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Unit Certificate

Nr.: 968/GI 2269.01/25 Grid Integration of Distributed Energy Resources

Technical data of the PGU:

Typ:	S6-GC80K	S6-GC100K	S6-GC110K	S6-GC125K	S6-GC125K-HV
Rated apparent power:	88 kVA	110 kVA	121 kVA	125 kVA	137.5 kVA
Rated active power:	80 kW	100 kW	110 kW	125 kW	125 kW
Max. active power (P_{600}):	79.65 kW	99.57 kW	109.53 kW	124.46 kW	124.46 kW
Rated voltage:	3/N/PE, 220/380, 230/400 VAC				3/PE, 480 VAC
Nominal frequency:	50 Hz / 60Hz				
Minimum required short-circuit power (only for type 1 PGU):	N/A				
Software-Version:	Firmware: A2 hardware: V2				

Validated Simulation Model:

Reference name: S6-GC(80-125)K_VDE_V2_Encrypted

MD5 Checksum: 8c0b25d78c5acde1e861d451b6f893df

Simulation platform: DIgSILENT PowerFactory 2024 SP4

Unit Certificate

Nr.: 968/GI 2269.01/25 Grid Integration of Distributed Energy Resources

The following deviations and restrictions apply:

☐ **None**

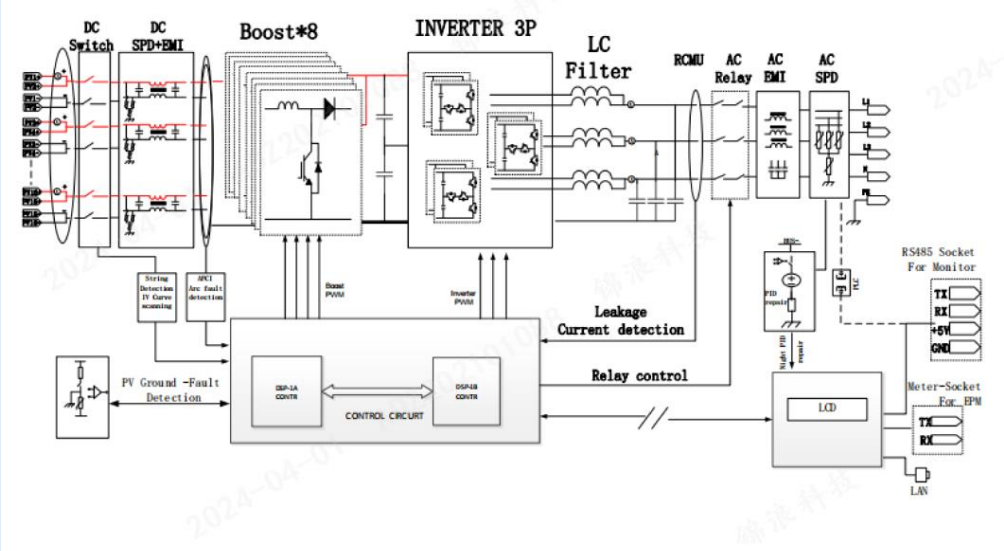
☒ **The following:**

- The deviations and limitations according to chapter 4.3.2. have to be observed and evaluated during system certification.
    - An external interface for specifying the reference voltage U/Uc is not implemented. If required, this has to be implemented on PGS level (e.g. via PGS controller).
    - The PGU control only supports five reference points for Q(P) control. If more reference points are needed, the Q(P) control must be implemented at PGS level (e.g. by PGS controller).
- The PGU contains one single interface for active power setpoint by grid operator or any different third party (e.g. direct marketer). Separate implementation of the interfaces for the grid provider specification and other setpoint specifications, including implementation of the lowest value in accordance with VDE-AR-N 4110, must therefore be implemented at the PGS level (e.g. in the PGS controller). This must be considered accordingly during system certification. The parameters for the voltage and frequency thresholds with regard to connection and reconnection are not configurable. This has to be considered during system certification.
- The certified product does not provide a test terminal. A connecting terminal plate has to be installed separately, if necessary. Alternatively, this requirement can be fulfilled on PGS level through an intermediate decoupling protection device with valid component certificate according VDE-AR-N 4110 and separate circuit breaker.
- Protection settings:: In one case (U<<), the trigger value was below the set trigger value. This must be taken into account accordingly during system certification.
- The validated simulation model of the PGUs specified shall be used in the certified version (see information above for details on file name and check sum (MD5)).

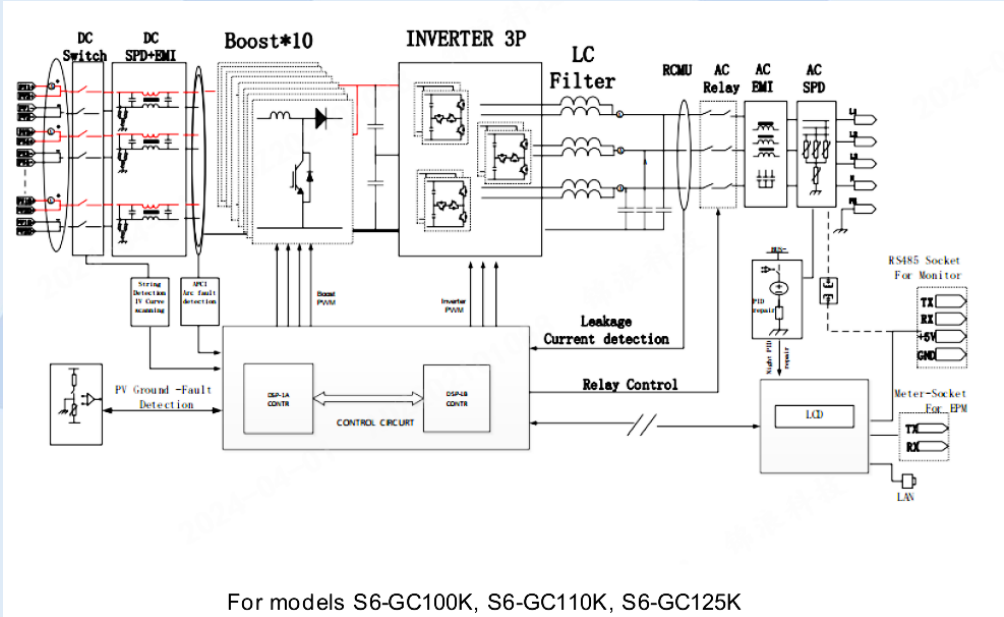
Unit Certificate

Nr.: 968/GI 2269.01/25 Grid Integration of Distributed Energy Resources

Schematic overview of the PGU:



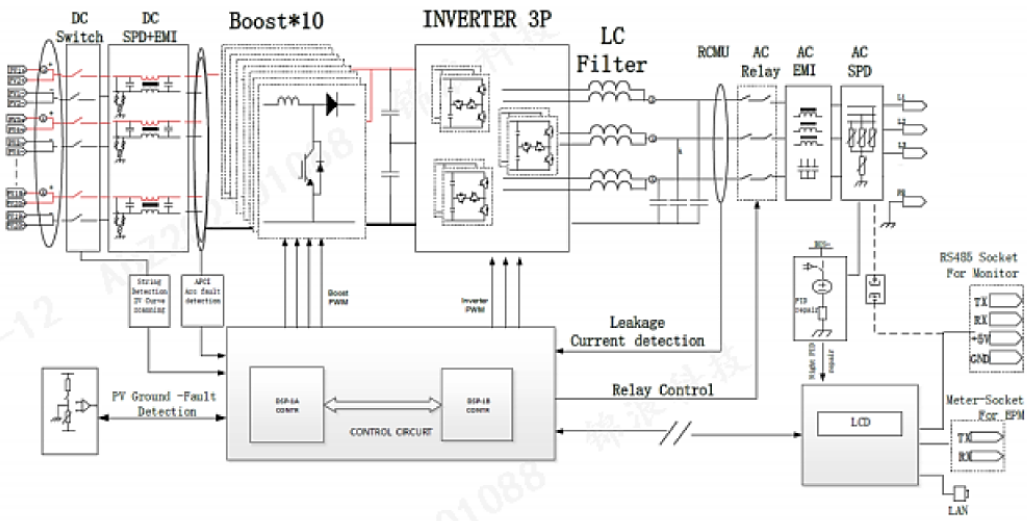
For model S6-GC80K



For models S6-GC100K, S6-GC110K, S6-GC125K

Unit Certificate

Nr.: 968/GI 2269.01/25 Grid Integration of Distributed Energy Resources



For model S6-GC125K-HV

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