Unit Certificate

FGW TG8 EZE

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No.: 968/GI 2206.00/25 Grid Integration of Distributed Energy Resources

Certificate Holder	KOSTAL Solar Electric GmbH Hanferstr. 6 79108 Freiburg im Breisgau Germany
Subject	Grid-Connected Photovoltaic Inverter **PIKO CI 30 G2, PIKO CI 50 G2**
Codes and Standards	VDE-AR-N 4110:2023 FGW TR 3:2023Revision 26 FGW TR 4 :2023Revision 10 FGW TR 8:2019 Revision 9
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 2206.00/25, 2025-06-30 Validation Report-No.: 968/GI 2081.02/25, 2025-02-12 Test Report No.: CN24JEMP 001, dated 2024-03-14 The manufacturer has provided proof of certification of the quality management system of his production facility in accordance with ISO 9001 or is subject to production monitoring.
Specific provisions	The deviations and conditions for conformity according to the evaluation report must be observed. The corresponding conditions and deviations are listed on page 2 of the certificate.

Valid until 2030-02-13

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 2206.00/25 dated 2025-06-30. 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, 2025-06-30

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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Technical data of the PGU:

Typ:	**PIKO CI 30 G2**	**PIKO CI 50 G2**
Rated apparent power:	33.4 kVA	55.6 kVA
Rated active power:	30 kW	50 kW
Max. active power (P_{600}):	33.12 kW	55.22 kW
Rated voltage:	400 V_{AC}	
Nominal frequency:	50 Hz / 60 Hz	
Minimum required short-circuit power (only for type 1 PGU):	N/A	
Software-Version:	306011	

Validated Simulation Model:

Reference name: VDE4110 Model_10_23_rev1.pfd

MD5 Checksum: C46E62A690C67F8D2B9F94C9D41F0F93

Simulation platform: DIgSILENT PowerFactory 2022

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The following deviations and restrictions apply:

☐ **None**

☒ **The following:**

- Method for reactive power supply:
  - **Q(U)-Control:** An external interface for specifying the reference voltage U/Uc is not implemented (Q(U)-control). If required, this has to be implemented on PGS level (e.g. via PGS controller).
  - **Q(P)-Control:** The PGU control only supports four reference points for Q(P) control. If more reference points are needed, the Q(P) control must be implemented on 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 interfaces for setpoint specifications regarding active power (e.g. grid operator, direct marketer) must be implemented at PGS level (e.g. by PGS-controller) and be evaluated as part of 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.
- The protection settings cannot be read from the inverter display. With regard to the requirements of the corresponding grid provider, an appropriate device to check the protection settings has to be provided on demand or should be stored on site.
- 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)).

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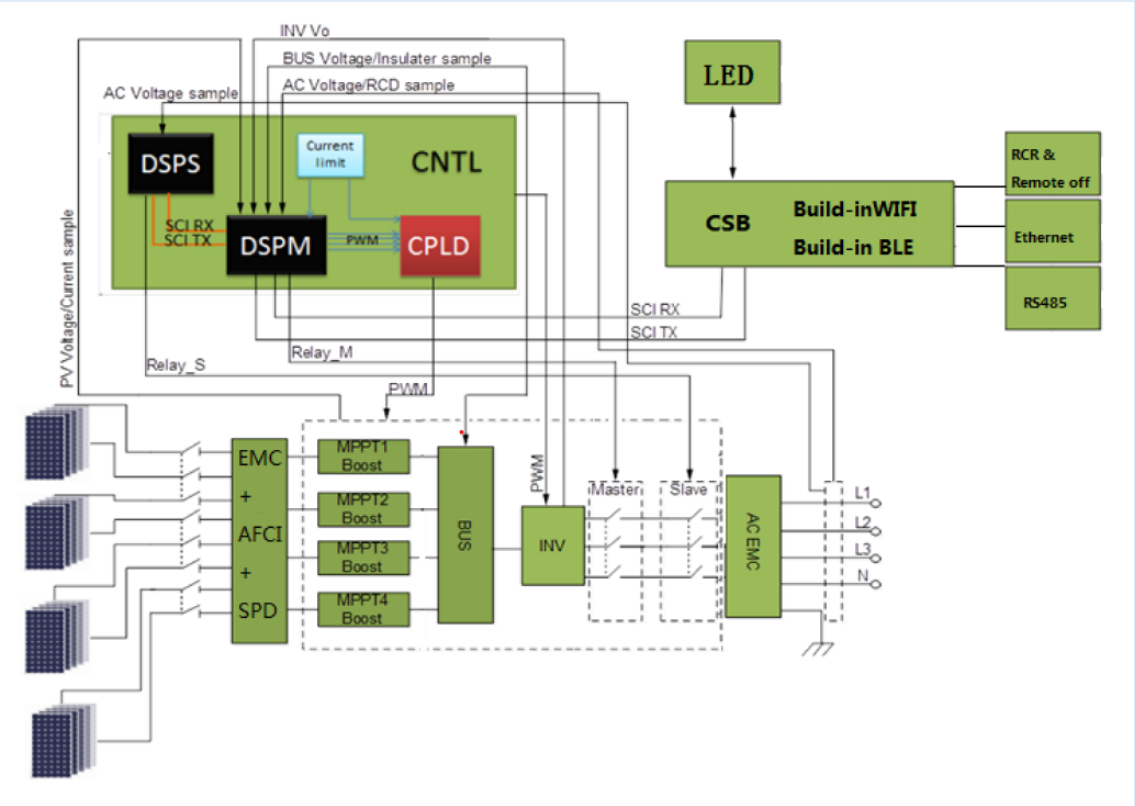
Schematic overview of the PGU:



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