Unit Certificate





No.: 968/GI 1319.01/22 Grid Integration of Distributed Energy Resources

Certificate Holder KOSTAL Solar Electric GmbH

Hanferstr. 6

Manufacturer

see certificate holder

79108 Freiburg Deutschland

Subject **PV Converters**

PIKO CI 50, PIKO CI 60

Codes and Standards VDE-AR-N 4110:2018

FGW TR 3:2018 Revision 25

FGW TR 4:2019 Revision 9 FGW TR 8:2019 Revision 9

Scope and result The power generating units mentioned above meet the requirements of

VDE-AR-N 4110:2018-11. The conformity is declared by following documents:

Report-No.: 968/GI 1319.01/22, dated 2022-02-15

Validation Report-No.: 968/GI 1319.02/22, dated 2022-02-15

Test Report No. CN21FTOE 003, dated 2021-12-31

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 2026-09-10

The issue of this certificate is based upon an evaluation in accordance with the Certification Program CERT GI3 V1.0:2017 in its actual version, whose results are documented in Report No. 968/GI 1319.01/22 dated 2022-02-15. 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.

TÜV Rheinland Industrie Service GmbH

Bereich Automation Funktionale Sicherheit Am Grauen Stein, 51105 Köln

Köln, 2022-02-17

Certification Body Safety & Security for Automation & Grid

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Dr. Alf Assenkamp



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Technical data of the PGU:

Тур:	PIKO CI 50	PIKO CI 60
Rated active power:	50 kW	60 kW
Max. apparent power:	55 kVA	66 kVA
Rated voltage:	400 V _{AC}	400 V _{AC}
Nominal frequency:	50 Hz	50 Hz
Minimum required short-circuit power (only for type 1 PGU):	N/A	N/A
Software-Version:	600101	

Validated Simulation Model:

Reference name: Kostal_rel_v1.pfd

MD5 Checksum: 87C75025D4EE26ABEAC94BEE32968F8D

Simulation platform: DlgSILENT PowerFactory 2021

The following deviations and restrictions apply:

□ None

- The certified product does not provide a test terminal. A connecting terminal plate has to be installed separately, if necessary.
- Due to missing display, an appropriate device (e.g. PC) to check the protection functions of the certified product has to be provided on demand.



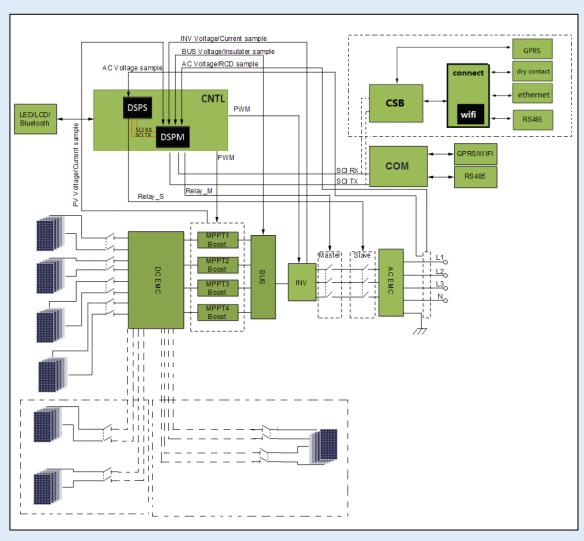


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Schematic overview of the PGU:



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