Unit Certificate





see certificate holder

No.: 968/GI 1320.01/22 Grid Integration of Distributed Energy Resources

Certificate Holder Solarmax GmbH

Zur Schönhalde 10

89352 Ellzee Deutschland

Subject PV Converters

> 50SHT, 50SHT-S, 50SHT-S2 60SHT, 60SHT-S, 60SHT-S2

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

Manufacturer

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 1320.01/22, dated 2022-02-15

Validation Report-No.: 968/GI 1320.02/22, dated 2022-02-15

Test Report No. CN21FTOE 002, 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.

The deviations and conditions for conformity according to the evaluation report must Specific provisions

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 1320.01/22 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

TÜV Rheinland Industrie Service GmbH, Am Grauen Stein, 51105 Köln / Germany Tel: +49 221 806-1790, Fax: +49 221 806-1539, E-Mail: industrie-service ®de.tuv.com

Dr. Alf Assenkamp



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Technical data of the PGU:

Тур:	50SHT, 50SHT-S, 50SHT-S2	60SHT 60SHT-S 60SHT-S2
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: Solarmax_rel_v1.pfd

MD5 Checksum: 872D1D77D565B551A27528C1766130B9 Simulation platform: DIgSILENT 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.



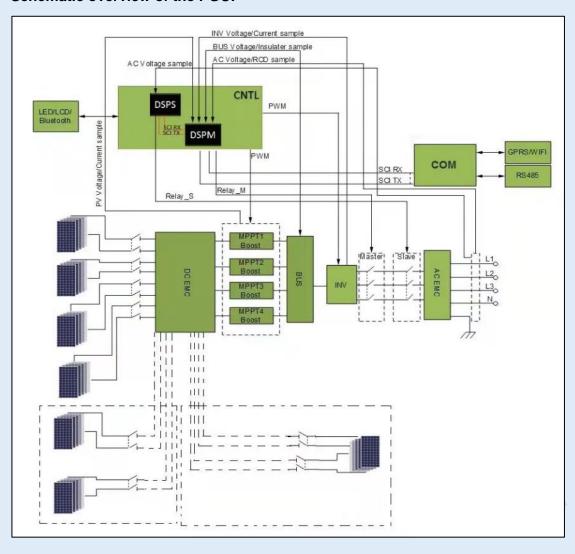


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Grid Integration of Distributed Energy Resources

Schematic overview of the PGU:



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