

# Unit Certificate



FGW TG8 EZE

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ID 190000000

No.: 968/GI 1320.01/22

Grid Integration of Distributed Energy Resources

<b>Certificate Holder</b>	Solarmax GmbH Zur Schönhalde 10 89352 Ellzee Deutschland	<b>Manufacturer</b>	see certificate holder
<b>Subject</b>	PV Converters 50SHT, 50SHT-S, 50SHT-S2 60SHT, 60SHT-S, 60SHT-S2		
<b>Codes and Standards</b>	VDE-AR-N 4110:2018 FGW TR 3:2018 Revision 25	FGW TR 4:2019 Revision 9 FGW TR 8:2019 Revision 9	
<b>Scope and result</b>	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.		
<b>Specific provisions</b>	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 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

Dr. Alf Assenkamp

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## Technical data of the PGU:

Typ:	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 <sub>AC</sub>	400 V <sub>AC</sub>
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 following:

- 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:

