

Unit Certificate



FGW TG8 EZE

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ID 190000000

No.: 968/GI 1452.03/22

Grid Integration of Distributed Energy Resources

Certificate Holder

FIMER S.p.A.
Via Tortona 25
20144 Milano
Italien

Subject

PV Converters
PVS-100-TL, PVS-120-TL

Codes and Standards

FGW TG 3:2018 Revision 25
FGW TG 4:2019 Revision 9
FGW TG 8:2019 Revision 9
VDE-AR-N 4110:2018
VDE-AR-N 4120:2018

Scope and result

The power generating units mentioned above meet the requirements of VDE-AR-N 4110:2018-11 and VDE-AR-N 4120:2018-11. The conformity is declared by following documents:
Report-No.: 968/GI 1452.03/22, dated 2022-07-06
Validation Report-No.: 968/GI 1452.02/22, dated 2021-07-06
Test Report No. IT22ZVTA 001, dated 2020-03-09

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 2023-12-31

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 1452.03/22 dated 2022-07-06. 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, 2022-07-07

Certification Body Safety & Security for Automation & Grid

Dipl.-Ing. Marco Klose

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Technical data of the PGU:

Typ:	PVS-100-TL	PVS-120-TL
Rated active power:	100 kW	120 kW
Max. apparent power:	100 kVA	120 kVA
Rated voltage:	400 V _{AC}	480 V _{AC}
Nominal frequency:	50 Hz / 60 Hz	50 Hz / 60 Hz
Minimum required short-circuit power (only for type 1 PGU):	N/A	N/A
Software-Version:	Tested Firmw are bundle: 2201B for PVS-100-TL Micro Supervisor: C.0.8.E, DSP Booster 1: A.0.8.4, DSP Inverter: B.0.8.C Tested Firmw are bundle: 2201C for PVS-120-TL Micro Supervisor: C.0.8.E, DSP Booster 1: A.0.8.4, DSP Inverter: B.0.8.C	

Validated Simulation Model:

Reference name: PVS_120TL_v_1_0_6_AR_N_4120_s1_c.pfd

MD5 Checksum: 39877A5FE744DD9B3B5EACA D988FD95A

Simulation platform: DlgSILENT PowerFactory 2021

The following deviations and restrictions apply:

None

The following:

- The setting ranges required by the technical connection guidelines are not complied with in the protection systems used by PGU. The recommended setting range 1 -1.3 U_N for "voltage rise protection" U_> and U_{>>} cannot be provided by the PVS-120TL. The maximum possible setting range is 1 -1.2 U_N, since the self-protection trips for values >1.2 U_N.
- The certified product does not provide a test terminal. A connecting terminal plate has to be installed separately, if necessary.
- It is not possible that protective disconnection functions can be parameterized and readable directly on the PGU, without using any additional equipment.

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Schematic overview of the PGU:

