



No.: 968/GI 1883.01/23 Grid Integration of Distributed Energy Resources

Certificate Holder Shenzhen Growatt New Energy Co., Manufacturer see certificate holder

Ltd.

4-13/F, Building A, Sino-German(Europe) Industrial Park, Hangcheng Ave, Bao'an District Shenzhen, Guangdong

P.R. China

Subject Grid-Connected PV-Inverter

MAX xxKTL3-X2 LV (xx=100, 110, 120, 125, 133) MAX xxKTL3-X2(ID) LV (xx=100, 110, 120, 125, 133) MAX xxKTL3-X LV (xx=100, 110, 120, 125, 133) MAX xxKTL3-X(ID) LV (xx=100, 110, 120, 125, 133)

Codes and StandardsVDE-AR-N 4110:2018FGW TG 4:2019 Revision 9

FGW TG 8:2019 Revision 9 FGW TG 3:2018 Revision 25

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: Evaluation Report-No.: 968/GI 1883.01/23, 2023-10-16 Validation Report-No.: 968/GI 1883.00/23, 2023-10-16 Test Report No.: CN23WZF3 001, dated 2023-08-08

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 and

3 of the certificate.

Valid until 2028-10-16

The issue of this certificate is based upon an evaluation in accordance with the Certification Program CERT Gl3 V5.0:2021-11 in its actual version, whose results are documented in Report No. 968/Gl 1883.01/23 dated 2023-10-16. 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, 2023-10-16

Am Grauen Stein, 51105 Köln

Certification Body Safety & Security for Automation & Grid

Dipl.-Ing. Marco Klose

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Technical data of the PGU:

Тур:	MAX 100KTL3-X2 LV MAX 100KTL3-X2(ID) LV MAX 100KTL3-X LV MAX 100KTL3-X(ID) LV	MAX 110KTL3-X2 LV MAX 110KTL3-X2(ID) LV MAX 110KTL3-X LV MAX 110KTL3-X(ID) LV		MAX 120KTL3-X2 LV MAX 120KTL3-X2(ID) LV MAX 120KTL3-X LV MAX 120KTL3-X(ID) LV
Max. apparent power:	110.0 kVA	121.0 kVA		132.0 kVA
Rated active power:	100.0 kW	110.0 kW		120.0 kW
Max. active power (P ₆₀₀):	110.0 kW	121.0 kW		132.0 kW
Rated current:	167.1 A _{AC}	183	3.8 A _{AC}	200.5 A _{AC}
Тур:	MAX 125KTL3-X2 LV MAX 125KTL3-X2(ID) LV MAX 125KTL3-X LV MAX 125KTL3-X(ID) LV	MAX 133KTL3-X2 MAX 133KTL3-X2 MAX 133KTL3-X L MAX 133KTL3-X(II		((ID) LV LV
Max. apparent power:	137.5 kVA		146.3 kVA	
Rated active power:	125.0 kW		133.0 kW	
Max. active power (P ₆₀₀):	137.5 kW		146.3 kW	
Rated current:	208.9 A _{AC}		222.3 A _{AC}	
Further general data valid for all types				
Rated voltage:	3/PE 400 V _{AC}			
Nominal frequency:	50 Hz			
Minimum required short- circuit power (only for type 1 PGU):	N/A			
Software-Version:	V 1.0			

Validated Simulation Model:

Reference name: TUVR_MAX+(100-133)KTL3-X(2)+LV_Encrypted.pfd

MD5 Checksum: 9493f09b46bb30768622561a484cb69f

Simulation platform: DIgSILENT PowerFactory 2023



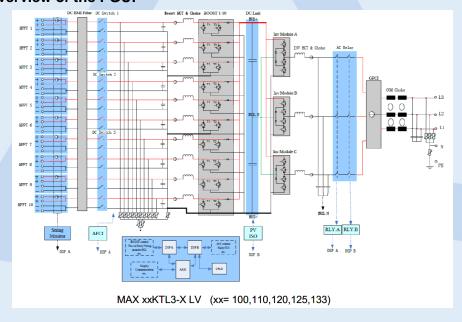
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The following deviations and restrictions apply:

□ None

- 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.
- As the unit does not contain a display, this has to be considered on project level. 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 certified product does not provide a test terminal. A connecting terminal plate has to be installed separately, if necessary.

Schematic overview of the PGU:

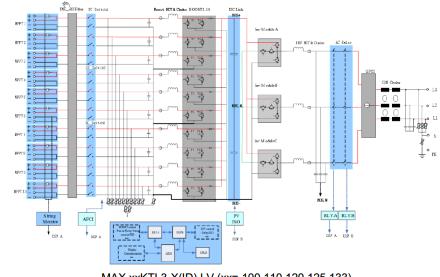




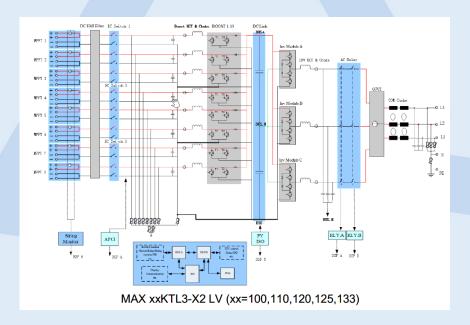
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Schematic overview of the PGU:



MAX xxKTL3-X(ID) LV (xx= 100,110,120,125,133)





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Schematic overview of the PGU:

