

Certificate

GoodWe Technologies Co., Ltd.
No.90 ZiJin Rd., New District,
Suzhou, 215011,
China

Type of unit Grid-Tied PV Inverter

Description of unit GW50K-SDT-C30

Technical data Detail see the ANNEX

Certification scheme P30VA01 TÜV NORD: Certification Process for Grid Integration Certification
Rev. 09/11.24

Standard EN 50549-1:2019+A1 Requirements for generating plants to be connected in parallel
2023 with distribution networks - Part 1: Connection to a LV distribution
network - Generating plants up to and including Type B

Additional standards EN 50549-10 Requirements for generating plants to be connected in parallel
2022 with distribution networks - Part 10: Tests for conformity
assessment of generating units

The generating unit complies with the requirements contained in the certification programmes and standards and directives listed above, with restrictions. Further details and technical data can be found in the annex 1, consisting of 4 pages.

Certificate Registration No. 44 799 23053469
Audit Report No. 3540 7157

Valid from 2025-11-05
Type 1a Certificate

Essen, 2025-11-05
Rev. 1.0



Certification Body at TÜV NORD CERT GmbH

TÜV NORD CERT GmbH
Am TÜV 1, 45307 Essen, Germany
www.tuev-nord-cert.com

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Annex

to Certificate Registration No. 44 799 23053469

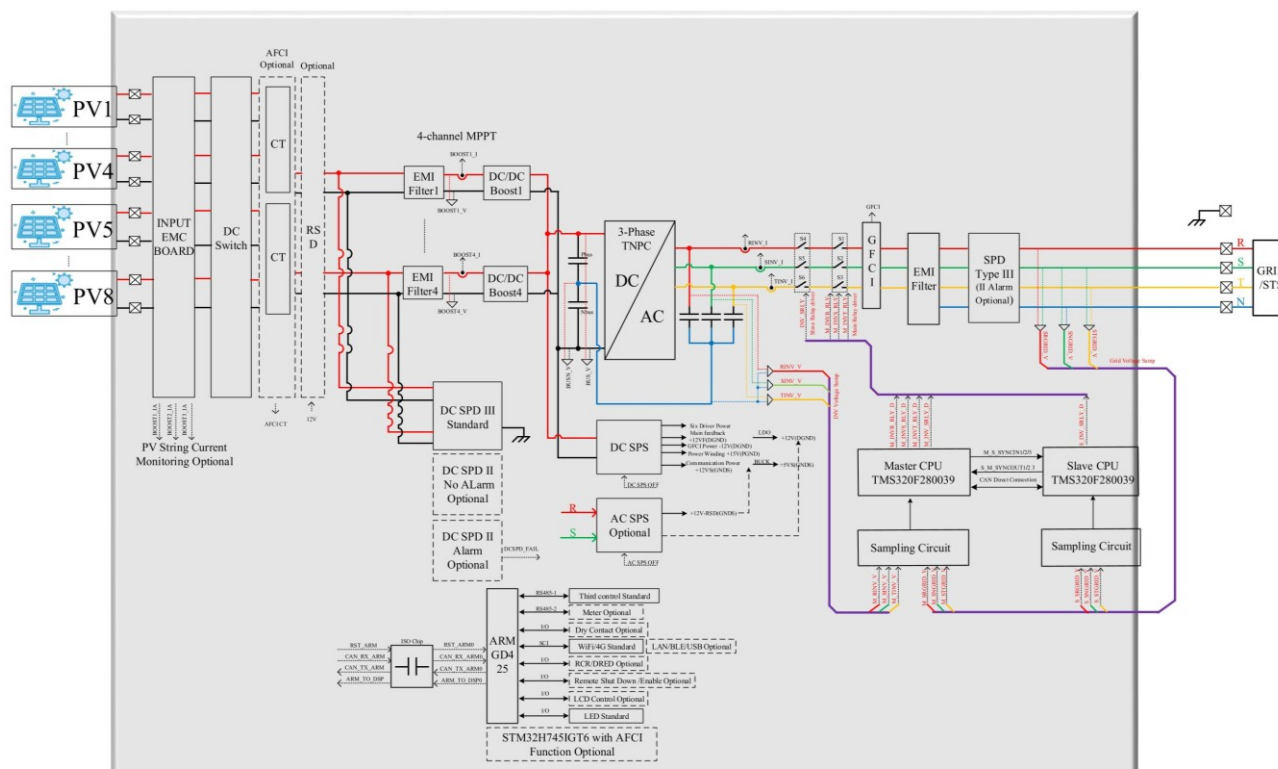
EN 50549-1:2019+A1 2023

EN 50549-10 2022

Rev.1.0

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Schematic structure



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EN 50549-1:2019+A1 2023

EN 50549-10 2022

Technical Data

General information

General	
Type of EZE	Grid-Tied PV Inverter
Designation	GW50K-SDT-C30
On-grid variables	
Rated apparent power S_{rE}	50000 VA 50000 VA (max)
Rated effective power P_{rE}	50000 W 50000 W (max)
Rated voltage U_r	230/400, 3L/N/PE
Rate current I_r	72.4 A
Reactive power adjustment range $\cos \varphi$	~1 (Adjustable from 0.8 leading to 0.8 lagging)
Rated frequency f_n	50 Hz
PV – Input Variables	
Min. MPP voltage	140 V
Max. MPP voltage	1000V
Max. DC input voltage	1100 V
Number of MPPT	4
Max. input current	40 A/40 A/40 A/40 A
Isc PV	52 A/52 A/52 A/52 A
DC – Input variables	
Type /IGBT module	IKY140N120CH7 & SGTQ120V75SDB1PWD
Quantity DC Link Capacitor	8
Clock frequency	16kHz
Type of power control	PWM
Max. Output current (only for IGBT)	IKY140N120CH7:140A SGTQ120V75SDB1PWD: 120A

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EN 50549-1:2019+A1 2023

EN 50549-10 2022

Software versions	V1.01.01
Generation unit Control	
Manufacturer	GoodWe Technologies Co., Ltd.
Software version	V1.01.01
Protection device	
Manufacturer	ZETTLER RELAY (XIAMEN) Co., Ltd
Type	Integrated guard
Switch-off unit (AC)	AZSR190T-1AE-12D
Software versions	V1.01.01

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EN 50549-1:2019+A1 2023

EN 50549-10 2022

Notes

The manufacturer has proven for the manufacturing facility of the Unit a certification of its quality management system according to ISO 9001. The manufacturer confirmed in a manufacturer declaration that the certification of the management system will be valid parallel to the period of this unit certification.

Additional technical data, according to EN 50549-1:2019+A1:2023&EN 50549-10:2022 are given in the assessment report (appendix A1).

The use of other firmware and software version numbers is allowed if the differences are proved and confirmed by TÜV NORD CERT GmbH beforehand. Validity of a new software version is attested by written confirmation and becomes part of the certificate.

Restriction

N/A

Appendix to the certificate

A1 Assessment report no. 3540 7157 version V1.0

A2 Manufacturer declaration for GW50K-SDT-C30 from Oct. 29, 2025

End of the List



Essen, 2025-11-05

Certification Body at TÜV NORD CERT GmbH