

Certificate of compliance

Applicant: GoodWe Technologies Co., Ltd.
No.90 Zijin Rd., New District, Suzhou, 215011, P.R. China

Product: Photovoltaic inverter

Model: GW150K-GT-G10

Inverter for three-phase parallel connection to the public grid. The network monitoring and disconnection device is an integral part of the above-mentioned model.

Applied rules and standards:

NRS 097-2-1:2024 Edition 3.0

Grid interconnection of embedded generation, Part 2: Small-scale embedded generation, Section 1: Utility interface

Comply with:

Category A3: 100 kVA – 1 MVA

IEC 61727:2004 Edition 2 (5.2 Over/under voltage and frequency)

Photovoltaic (PV) systems – Characteristics of the utility interface

IEC 62116:2014 Edition 2

Test procedure of islanding prevention measures for utility-interconnected photovoltaic inverters

VDE AR-N 4105:2011-08 (A.6 General requirements, single-fault tolerance)

Power generation systems connected to the low-voltage distribution network

Note:

The inverters comply with IEC/EN 61000-6-2 "Electromagnetic compatibility (EMC) – Part 6-2: Generic standards – Immunity standard for industrial environments, IEC/EN 61000-6-3 Electromagnetic compatibility (EMC) – Part 6-3: Generic standards – Emission standard for residential, commercial and light-industrial" and IEC/EN 61000-2-2 "Environment - Compatibility levels for low-frequency conducted disturbances and signalling in public low-voltage power supply systems"

At the time of issue of this certificate, the safety concept of an aforementioned representative product corresponds to the valid safety specifications for the specified use in accordance with regulations.

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Certificate number: U25-1107

Certification Program: NSOP-0032-DEU-ZE-ES-V10

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Certification body

Accreditation



Domenik Koll
Head of Energy Systems Germany



Accredited certification body by Deutsche Akkreditierungsstelle GmbH (DAkKS) according to ISO/IEC 17065. The accreditation is valid only for the scope listed in the annex of the accreditation certificate D-ZE-12024-01-00. The Deutsche Akkreditierungsstelle GmbH (DAkKS) is signatory of the multilateral arrangements of EA, ILAC and IAF for mutual recognition.

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Annex				
Manufacturer	GoodWe Technologies Co., Ltd. No.90 Zijin Rd., New District, Suzhou, 215011, P.R. China			
Product type	Photovoltaic inverter			
Static converter model	GW150K-GT-G10	--	--	--
Input DC (photovoltaic)				
MPP voltage range [V]	180-1000	--	--	--
Max. input voltage [V]	1100	--	--	--
Max. input current per MPPT [A]	42,0*10	--	--	--
Output AC				
Rated AC voltage [V]	3L/N/PE or 3L/PE, 230/400Vac, 50Hz	--	--	--
Rated output current [A]	216,5	--	--	--
Max. output current [A]	238,2	--	--	--
Nom. converter output (P _{NINV}) [kW]	150,0	--	--	--
Max. apparent power [kVA]	165,0	--	--	--
Interface protection system and interface switch (Network and system protection “NS-protection”)				
Type of protection	Integrated NS-protection			
Assigned to generation unit type	GW150K-GT-G10			
Integrated interface switch	Type of switching equipment 1: Relay (Model HF167F-270/12-HPTFL (398) (AD2)) Type of switching equipment 2: Relay (Model HF167F-270/12-HPTFL (398) (AD2))			
	Note: The output is switched off by the inverter bridge and two relay in series in each line and neutral.			
Software				
Firmware version	V1.01.01			
Note				
The settings of the product are password protected adjustable.				
In case the above stated generators are used with an external protection device, the protection settings of the inverters are to be adjusted according to the manufacturer’s declaration.				