

Certificate of compliance

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

Product: Photovoltaic (PV) and battery inverter

Model: GW5K-ES-LD-G10
GW7.5K-ES-LD-G10
GW10K-ES-LD-G10

Inverter for 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:

IEC 61727:2004

Photovoltaic (PV) systems – Characteristics of the utility interface

IEC 62116:2014

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

Note:

The stated inverters above are intended for two-phase grid connection (2L/N/PE) at the following grids:

2L/N/PE, 120/208Vac, 127/220Vac, 60Hz

2L/N/PE, 120/240Vac, 127/254Vac, 60Hz

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.

Report number: PV2506WDG0243-1,
PV2506WDG0243-2

Certification Program:

NSOP-0032-DEU-ZE-V10

Certificate number: U25-0826

Date of issue:

2025-09-16

Certification body

Accreditation



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Lab Supervisor Energy Systems



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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Type Approval and declaration of compliance with the requirements of IEC 61727:2004, IEC 62116:2014				
Manufacturer	GoodWe Technologies Co., Ltd. No.90 Zijin Rd., New District, Suzhou, 215011 P.R. China			
Product type	Photovoltaic (PV) and battery inverter			
Static converter model	GW5K-ES-LD-G10	GW7.5K-ES-LD-G10	GW10K-ES-LD-G10	--
Input (PV DC)				
MPP voltage range [V]	50-550	50-550	50-550	--
Max. input voltage [V]	600,0	600,0	600,0	--
Max. input current per MPPT [A]	20,0/20,0	40,0/20,0	40,0/40,0	--
Input (DC battery)				
DC voltage range [V]	40-60	40-60	40-60	--
Max. charge / discharge current [A]	120,0/120,0	165,0/165,0	220,0/220,0	--
Output (AC)				
Rated AC voltage [V]	2L/N/PE, 120/208Vac, 127/220Vac, 60Hz; 2L/N/PE, 120/240Vac, 127/254Vac, 60Hz;	2L/N/PE, 120/208Vac, 127/220Vac, 60Hz; 2L/N/PE, 120/240Vac, 127/254Vac, 60Hz;	2L/N/PE, 120/208Vac, 127/220Vac, 60Hz; 2L/N/PE, 120/240Vac, 127/254Vac, 60Hz;	--
Max. output current [A]	24,0 (120/208Vac) 22,7 (127/220Vac) 20,8 (120/240Vac) 19,7 (127/254Vac)	36,1 (120/208Vac) 34,1 (127/220Vac) 31,3 (120/240Vac) 29,5 (127/254Vac)	48,1 (120/208Vac) 45,5 (127/220Vac) 41,7 (120/240Vac) 39,4 (127/254Vac)	--
Nom. converter output (P _{NINV}) [kW]	5,0	7,5	10,0	--
Max. apparent power [kVA]	5,0	7,5	10,0	--
Interface protection system and interface switch (Network and system protection "NS-protection")				
Type of protection	integrated NS-protection			
Assigned to generation unit type	GW5K-ES-LD-G10 GW7.5K-ES-LD-G10 GW10K-ES-LD-G10			
Integrated interface switch	Type of switching equipment 1: Relay (Model HF161F-55W-12-HTF) Type of switching equipment 2: Relay (Model HF161F-55W-12-HTF) Note: The output is switched off by the inverter bridge and two relay in series in each line and neutral.			
Firmware version	000001			

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.

The above stated generators are tested according to the requirements in the IEC 61727:2004, IEC 62116:2014. Any modification that affects the stated tests must be named by the manufacturer/supplier of the product to ensure that the product meets all requirements.