

CERTIFICATE OF CONFORMITY

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

For the product: Hybrid Inverter

Trade name: **GOODWE**

Type/Model: GW5K-ET-L-G10, GW6K-ET-L-G10, GW8K-ET-L-G10,
GW10K-ET-L-G10, GW12K-ET-L-G10, GW15K-ET-L-G10,
GW20K-ET-L-G10, GW12K-ET-LL-G10

Ratings: See Annex

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

Requirements: IEC 63027:2023

This Test Certificate is granted on account of an examination by DEKRA, the results of which are laid down in a confidential file no. 6210815.50

The examination has been carried out on one single specimen of the product. The Attestation does not include an assessment of the manufacturer's production. Conformity of this production with the specimen tested by DEKRA is not the responsibility of DEKRA.

This Test Certificate expires at the latest on 8 July 2030 or expires upon withdrawal of one of the above mentioned standards.

Shanghai, 8 July 2025

Certificate Number: 6210815.01COC

DEKRA Testing and Certification (Shanghai) Ltd.


Kreny Lin
Certification Manager

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ESA-CER-F021 v4.1

Annex



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Specifications table:

Model	GW5K-ET-L-G10	GW6K-ET-L-G10	GW8K-ET-L-G10	GW10K-ET-L-G10	GW12K-ET-L-G10	GW15K-ET-L-G10	GW20K-ET-L-G10	GW12K-ET-LL-G10
Battery Side								
Battery Type	LFP (LiFePO ₄) /Lead-acid	LFP (LiFePO ₄) /Lead-acid	LFP (LiFePO ₄) /Lead-acid	LFP (LiFePO ₄) /Lead-acid	LFP (LiFePO ₄) /Lead-acid	LFP (LiFePO ₄) /Lead-acid	LFP (LiFePO ₄) /Lead-acid	LFP (LiFePO ₄) /Lead-acid
Nominal Battery Voltage (V)	48	48	48	48	48	48	48	48
Battery voltage range (V)	40~60	40~60	40~60	40~60	40~60	40~60	40~60	40~60
Start-up Voltage(V)	30	30	30	30	30	30	30	30
Number of Battery Input	1	1	1	1	1	2	2	1
Max. Continuous Charging Current (A)	125	135	175	220	250	165/165	208/208	250
Max. Continuous Discharging Current (A)	125	135	175	220	250	165/165	208/208	250
Max Charging Power (kW)	5	6	8	10	12	15	20	12
Max Discharging Power (kW)	5.5	6.6	8.8	11	13.2	16.5	22	13.2
PV Side								
Max. Input Power (kW)	10	12	16	20	24	30	40	24
Max. Input Voltage (V)	1000	1000	1000	1000	1000	1000	1000	1000
MPPT Operating Voltage Range (V)	150-850V	150-850V	150-850V	150-850V	150-850V	150-850V	150-850V	150-850V
MPPT Operating Voltage Range at Nominal Power (V)	300~850	300~850	300~850	300~850	300~850	350~850	350~850	300~850
Start-up Voltage (V)	180	180	180	180	180	180	180	180
Nominal Input Voltage (V)	620	620	620	620	620	620	620	620
Max. MPPT Current (A)	20/20	20/20	20/20	20/20/20	20/20/20	20/20/20/20	20/20/20/20	20/20/20
Max. MPPT Short Circuit Current(A)	26/26	26/26	26/26	26/26/26	26/26/26	26/26/26/26	26/26/26/26	26/26/26
Number of MPPTs	2	2	2	3	3	4	4	3
Number of Strings per MPPT	2/1+1	2/1+1	2/1+1	3/1+1+1	3/1+1+1	4/1+1+1+1	4/1+1+1+1	3/1+1+1
AC Side (On-grid)								
Nominal Power (kW)	5	6	8	10	12	15	20	12
Max. Power (kW)	5.5	6.6	8.8	11	13.2	16.5	22.0	12
Nominal Power at 40 °C (kW)	5	6	8	10	12	15	20	12
Max. Power at 40 °C (kW)	5	6	8	10	12	15	20	12
Nominal Apparent Power Output to Grid (kVA)	5	6	8	10	12	15	20	12
Max. Apparent Power to Utility Grid (kVA)	5.5	6.6	8.8	11	13.2	16.5	22	13.2
Nominal Apparent Power from Grid(kVA)	5	6	8	10	12	15	20	12
Max. Apparent Power from Grid (kVA)	48.3	48.3	48.3	48.3	48.3	48.3	48.3	26.7
Nominal Voltage (V)	400/380, 3L/N/PE	400/380, 3L/N/PE	400/380, 3L/N/PE	400/380, 3L/N/PE	400/380, 3L/N/PE	400/380, 3L/N/PE	400/380, 3L/N/PE	220, 3L/N/PE
Voltage Range (V)	170~290	170~290	170~290	170~290	170~290	170~290	170~290	170~290
Nominal Frequency (Hz)	50/60	50/60	50/60	50/60	50/60	50/60	50/60	60
Frequency Range (Hz)	45~65	45~65	45~65	45~65	45~65	45~65	45~65	55~65

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Max. Current to Grid (A)	7.9@230 V 8.3@220 V	9.6@230 V 10@220 V	12.8@230 V 13.4@220 V	15.9@230 V 16.7@220 V	19.1@230 V 20@220 V	23.9@230 V 25@220 V	31.9@230 V 33.3@220 V	31.5@127 V
Max. Current From Grid (A)	70	70	70	70	70	70	70	70
Nominal Current From Grid (A)	7.5@220 V 7.2@230 V	9.1@220 V 8.7@230 V	12.1@220 V 11.6@230 V	15.2@220 V 14.5@230 V	18.2@220 V 17.4@230 V	22.7@220 V 21.7@230 V	30.3@220 V 29@230 V	31.5@127 V
Max. Output Fault Current (Peak and Duration) (A)	99	99	99	99	99	99	99	99
Inrush Current (Peak and Duration) (A)	300A/2ms	300A/2ms	300A/2ms	300A/2ms	300A/2ms	300A/2ms	300A/2ms	300A/2ms
Nominal Current to Grid (A)	7.5@220 V 7.2@230 V	9.1@220 V 8.7@230 V	12.1@220 V 11.6@230 V	15.2@220 V 14.5@230 V	18.2@220 V 17.4@230 V	22.7@220 V 21.7@230 V	30.3@220 V 29@230 V	31.5@127 V
Power Factor	~1 (Adjustable from 0.8 leading~0.8 lagging)	~1 (Adjustable from 0.8 leading~0.8 lagging)	~1 (Adjustable from 0.8 leading~0.8 lagging)	~1 (Adjustable from 0.8 leading~0.8 lagging)	~1 (Adjustable from 0.8 leading~0.8 lagging)	~1 (Adjustable from 0.8 leading~0.8 lagging)	~1 (Adjustable from 0.8 leading~0.8 lagging)	~1 (Adjustable from 0.8 leading~0.8 lagging)
THDI	<3%	<3%	<3%	<3%	<3%	<3%	<3%	<3%
Maximum Output Overcurrent Protection (A)	70	70	70	70	70	70	70	70
Type of voltage	a.c.	a.c.	a.c.	a.c.	a.c.	a.c.	a.c.	a.c.
Back-up Side								
Nominal Output Apparent Power (kVA)	5	6	8	10	12	15	20	12
Max. Output Apparent Power(VA)	5.5(10.0, 10s)	6.6(12.0, 10s)	8.8(16.0, 10s)	11.0(20.0, 10s)	13.2(24.0, 10s)	16.5(30.0, 10s)	22.0(40.0, 10s)	13.2(24.0, 10s)
Max. Output Apparent Power with Grid (kVA)	48.3	48.3	48.3	48.3	48.3	48.3	48.3	26.7
Nominal Output Current (A)	7.5@220 V 7.2@230 V	9.1@220 V 8.7@230 V	12.1@220 V 11.6@230 V	15.2@220 V 14.5@230 V	18.2@220 V 17.4@230 V	22.7@220 V 21.7@230 V	30.3@220 V 29@230 V	31.5@127 V
Max Output Current(Byapss)	70	70	70	70	70	70	70	70
Max. Fault Current (Peak and Duration) (A)	99A/100 ms	99A/100 ms	99A/100 ms	99A/100 ms	99A/100 ms	99A/100 ms	99A/100 ms	99A/100 ms
Inrush Current (Peak and Duration) (A)	300A/2ms	300A/2ms	300A/2ms	300A/2ms	300A/2ms	300A/2ms	300A/2ms	300A/2ms
Maximum Overcurrent Protection (A)	70	70	70	70	70	70	70	70
Nominal Output Voltage (V)	400/380, 3L/N/PE	400/380, 3L/N/PE	400/380, 3L/N/PE	400/380, 3L/N/PE	400/380, 3L/N/PE	400/380, 3L/N/PE	400/380, 3L/N/PE	220, 3L/N/PE
Nominal Output Frequency (Hz)	50/60	50/60	50/60	50/60	50/60	50/60	50/60	60
Generator Side								
Nominal Apparent Power(kVA)	20	20	20	20	20	20	20	12
Max. Apparent Power(kVA)	20	20	20	20	20	20	20	12
Nominal Voltage (V)	400/380	400/380	400/380	400/380	400/380	400/380	400/380	220
Input Voltage Range (V)	170~290	170~290	170~290	170~290	170~290	170~290	170~290	170~290

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Nominal Frequency (Hz)	50/60	50/60	50/60	50/60	50/60	50/60	50/60	60
Frequency Range (Hz)	45~55 / 55~65	45~55 / 55~65	45~55 / 55~65	45~55 / 55~65	45~55 / 55~65	45~55 / 55~65	45~55 / 55~65	55~65
Max. Current (A)	30.3	30.3	30.3	30.3	30.3	30.3	30.3	31.5

AFCI configuration:

Inverter parameters:	GW5K-ET-L-G10	GW6K-ET-L-G10	GW8K-ET-L-G10	GW10K-ET-L-G10	GW12K-ET-L-G10	GW12K-ET-LL-G10	GW15K-ET-L-G10	GW20K-ET-L-G10
I _{max} mpp per input port (maximum operating PV input current per input port).(A)	20	20	20	20	20	20	20	20
I _{max} mpp per MPP Tracker (maximum current per MPP-Tracker) (A)	20	20	20	20	20	20	20	20
I _{max} per channel (A)	40	40	40	40/20	40/20	40/20	40/40	40/40
V _{max} OC PV (maximum rated PV input voltage) (V)	1000	1000	1000	1000	1000	1000	1000	1000
V _{min} mpp PV (minimum rated MPP PV input voltage) (V)	150	150	150	150	150	150	150	150
MPPT channel	2	2	2	3	3	3	4	4
Maximum number of strings per input	1	1	1	1	1	1	1	1
Classification according to Clause 4:	F-I-AFPE-1-2-1	F-I-AFPE-1-2-1	F-I-AFPE-1-2-1	F-I-AFPE-1-2/1-2	F-I-AFPE-1-2/1-2	F-I-AFPE-1-2/1-2	F-I-AFPE-1-2-2	F-I-AFPE-1-2-2

Note:

F-I-AFPE-1-2-1

- Full coverage
- Integrated
- AFPE
- 1 monitored string per input port
- 2 input ports per channel
- 1 monitored channels.

F-I-AFPE-1-2/1-2

- Full coverage
- Integrated
- AFPE
- 1 monitored string per input port
- 2/1 input ports per channel
- 2 monitored channels.

F-I-AFPE-1-2-2

- Full coverage
- Integrated
- AFPE
- 1 monitored string per input port
- 2 input ports per channel
- 2 monitored channels.

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