

INVERTER CONFORMANCE DECLARATION

INVERTER INFORMATION

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|---------------------------|------------|------------|
| Inverter Model | GW5048D-ES | GW3648D-ES |
| Rated output power | 4.6 kW | 3.68 kW |

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|--------------------|--------------------|--|-------------------|
| Manufacture | | Jiangsu GoodWe Power Supply Technology Co.,Ltd. | |
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We JIANGSU GOODWE POWER SUPPLY TECHNOLOGY CO.,LTD.

Hereby declares that above Grid-tied PV Inverter models comply with followed requirement:

It has an internal interconnection switch for automatic disconnection.

It has internal protection of minimum and maximum voltage and network frequency. Thus, the inverter disconnects if the network goes out of the following threshold values, in the indicated time:

| Parameter | Protection threshold | Maximum time of action |
|---------------------|----------------------|------------------------|
| Overvoltage-phase 1 | Un + 10% | 1.5s |
| Overvoltage-phase 2 | Un + 15% | 0.2s |
| Minimum voltage | Un – 15% | 1.5s |
| Maximum frequency | 50.5 Hz | 0.5s |
| Minimum frequency | 48 Hz | After 3s immediately |

Un AC = 230V / 400V (Three-phase)

If the maximum frequency protection is activated, the reconnection will only be carried out when the frequency reach a value less than or equal to 50 Hz.

Whenever there is power to the input, the inverter will make the connection to the network synchronizing with in tension (+/- 8%), in frequency (+/- 0.1Hz), and in phase (+/- 10%).

The adjustment software for voltage and frequency protections is not accessible to the user.

It has a protection blocking relay, with a synchronization time and automatic reset of 180 seconds This relay is activated by the maximum and minimum voltage and frequency protections.

The direct current injected into the network does not exceed 0.5% of the nominal current.

It has an insulation monitor to earth on the DC side.

It has protection against island operation, complying with what is indicated in Standard UNE EN 50438, in the IEC 62116 and in the UNE 206006: 2011 IN.

Presents a coefficient of harmonic distortion of less than 3%.

The devices for voltage monitoring have an error in the measurement of less than 1%,the devices for frequency monitoring have an error in the measurement of less than 0.05Hz.

The inverter complies with all applicable safety standards and guidelines:

UNE 206007-1 IN: 2013

RD 1699/2011 on connection of photovoltaic installations to the low voltage network.

Directive 2014/30/ EU, on electromagnetic compatibility.

DIN EN 61000-6-2, DIN EN 61000-6-4 on emission of harmonics.



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