



GOODWE SINGLE PHASE SMALL DOMESTIC INVERTER

GW1500-NS & GW3000-NS

The GoodWe NS series inverter is perfectly suited for small scale domestic households and new-build housing projects, with its lightweight build and small footprint.

The NS series has a unique low start-up voltage, allowing for fewer panels required per inverter.

These inverters are designed to be lightweight, robust and suitable for outdoor and indoor installations.




GOODWE
YOUR SOLAR ENGINE



HOW YOU BENEFIT



HIGH EFFICIENCY

With inverter efficiency of up to 97.5%, generating more power from your PV system.



WIDE MPPT RANGE

Low start up voltage allowing for fewer panels per inverter. Suitable for households with limited roof space.



SAFE OPERATION

Robust design is suitable for outdoor and indoor installations with an IP rating of IP65.



COMPACT DESIGN

Lightweight, small and robust. Natural convection cooling and quiet operation.

Technical Data

| INVERTER TECHNICAL DATA | | GW1500-NS | GW3000-NS |
|---------------------------------------|--|---|-----------|
| Output (AC) | | | |
| Nominal output power | | 1500 W | 3000 W |
| Maximum output apparent power | | 1500 W | 3000 W |
| AC output voltage (nominal) | | 220 / 230 V | |
| Output power factor | | ~1 (Adjustable from 0.8 leading to 0.8 lagging) | |
| AC frequency | | 50 / 60 Hz | |
| Maximum output current | | 7.5 A | 13.5 A |
| Output THDi (@nominal output) | | < 3% | |
| Input (DC) | | | |
| Maximum DC input power | | 1950 W | 3900 W |
| Maximum input voltage | | 500 V | |
| MPPT range | | 80-450 V | |
| Start-up voltage | | 80 V | |
| MPPT range for full load | | 180-450 V | 215-450 V |
| Nominal DC input voltage | | 360 V | |
| Maximum input current | | 10 A | 18 A |
| No. of MPP trackers | | 1 | |
| No. of input strings per tracker | | 1 | |
| Efficiency | | | |
| Maximum efficiency | | 97.0% | 97.5% |
| Euro efficiency | | 96.0% | 97.0% |
| Protection | | | |
| Anti-islanding protection | | Integrated | |
| Input reverse polarity protection | | Integrated | |
| Insulation resistor detection | | Integrated | |
| Residual current monitoring unit | | Integrated | |
| Output over current protection | | Integrated | |
| Output short protection | | Integrated | |
| Output over voltage protection | | Integrated | |
| General Data | | | |
| Operating temperature range | | -25~60 °C | |
| Relative humidity | | 0~100% | |
| Operating altitude | | ≤ 4000 m | |
| Cooling | | Natural convection | |
| Noise | | < 25dB | |
| User interface | | LCD & LED | |
| Communication | | RS485 or Wi-Fi (built in; antenna included) | |
| Weight | | 7.5 kg | 8.5 kg |
| Size (W x H x D) | | 344 x 274.5 x 128 mm | |
| Protection degree | | IP65 | |
| Night self-consumption | | <1W | |
| Topology | | Transformerless | |
| Manufacturer's warranty | | 5 Years [†] | |
| Solahart warranty | | 5 Years* | |
| Certifications & Standards | | | |
| Grid regulation | | VDE0126-1-1, AS4777.2, EN50438(PL), G83, ERDF-NOI-RES_13E, IEC61727, IEC62116, CEI 0-21, RD 1699:2011, UNE 206006 IN: 2011, UNE 206007-1 IN: 2013 | |
| Safety regulation | | IEC62109-1&2 | |
| EMC | | EN 61000-6-1, EN 61000-6-2, EN 61000-6-3, EN 61000-6-4, EN 61000-4-16, EN 61000-4-18, EN 61000-4-29 | |

[†]For full details see manufacturer's warranty statement.

* For full details see Solahart Owner's Guide & Installation Instructions.

Specifications and designs included in this data sheet are subject to change without notice.

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Reorder code: SHDS/PVINGW1.5_3-NS

IH0113_GW1500-NS & GW3000-NS_Single Phase GoodWe Inverters_July 2019