



GOODWE SINGLE PHASE DOMESTIC INVERTER

GW5000D-NS

The GoodWe DNS series inverter is lightweight and compact, which makes it ideal for mid-sized residential installations.

Dual MPPT trackers allow for increased design flexibility, and with an IP65 protection rating, the DNS series is dust-proof and waterproof.

It is compatible with both indoor and outdoor installations.



HOW YOU BENEFIT



HIGH EFFICIENCY

With inverter efficiency of up to 97.8%, generating more power from your PV system.



WIDE MPPT RANGE

Wide MPPT range provides greater design options for your household system.



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 | | GW5000D-NS |
|---------------------------------------|--|---|
| Output (AC) | | |
| Nominal output power | | 5000 W |
| Maximum output apparent power | | 5000 VA |
| 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 | | 22.8 A |
| Output THDi (@nominal output) | | < 3% |
| Input (DC) | | |
| Maximum DC input power | | 6500 W |
| Maximum input voltage | | 600 V |
| MPPT range | | 80-550 V |
| Start-up voltage | | 120 V |
| MPPT range for full load | | 250-550 V |
| Nominal DC input voltage | | 360 V |
| Maximum input current | | 11 A / 11 A |
| Maximum short circuit current | | 13.8 A / 13.8 A |
| No. of MPP trackers | | 2 |
| No. of input strings per tracker | | 1 |
| Efficiency | | |
| Maximum efficiency | | 97.8% |
| Euro efficiency | | 97.5% |
| 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 or LAN |
| Weight | | 13 kg |
| Size (W x H x D) | | 354 x 433 x 147 mm |
| Protection degree | | IP65 |
| Night self-consumption | | <1W |
| Topology | | Transformerless |
| Manufacturer's warranty | | 5 + 5 Years [†] |
| Solahart warranty | | 5 Years* |
| Certifications & Standards | | |
| Grid regulation | | VDE-AR-N 4105, VDE0126-1-1, EN50438(PL), EN50438(SW), AS4777.2, G83, 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 the 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/PVINVGW5000D-NS

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