

Bring The Sun Home

DNS Series

Dual-MPPT, Single-Phase

3.0kW 3.6kW 4.2kW 5.0kW 6.0kW

GoodWe DNS series is a perfect match for residential installations thanks to its compact size and light weight. Manufactured for durability and longevity under modern industrial standards, GoodWe DNS series is IP65 rated so it can be mounted either inside or outside your home. The GoodWe DNS series is also extremely light, 30% lighter than other inverters.



Wide MPPT Range



10% AC Overloading



High Efficiency 98%



Multi-monitoring Method
WiFi , RS485, LAN



| Technical Data | GW3000D-NS | GW3600D-NS | GW4200D-NS | GW5000D-NS | GW6000D-NS |
|---------------------------------------|---|--------------------|--------------------|---|--------------------|
| PV String Input Data | | | | | |
| Max. DC Input Power (W) | 3900 | 4680 | 5460 | 6500 | 7200 |
| Max. DC Input Voltage (V) | 600 | 600 | 600 | 600 | 600 |
| MPPT Range (V) | 80~550 | 80~550 | 80~550 | 80~550 | 80~550 |
| Start-up Voltage (V) | 120 | 120 | 120 | 120 | 120 |
| MPPT Range for Full Load (V) | 150~550 | 180~550 | 210~550 | 250~550 | 280~550 |
| Nominal DC Input Voltage (V) | 360 | 360 | 360 | 360 | 360 |
| Max. Input Current (A) | 11/11 | 11/11 | 11/11 | 11/11 | 11/11 |
| Max. Short Current (A) | 13.8/13.8 | 13.8/13.8 | 13.8/13.8 | 13.8/13.8 | 13.8/13.8 |
| No. of MPP Trackers | 2 | 2 | 2 | 2 | 2 |
| No. of Input Strings per Tracker | 1 | 1 | 1 | 1 | 1 |
| AC Output Data | | | | | |
| Nominal Output Power (W) | 3000* ¹ | 3680* ¹ | 4200* ¹ | 5000* ¹ | 6000* ¹ |
| Max. Output Apparent Power (VA) | 3000 | 3680 | 4200 | 5000 | 6000 |
| Nominal Output Voltage (V) | 220/230 | 220/230 | 220/230 | 220/230 | 220/230 |
| Nominal Output Frequency (Hz) | 50/60 | 50/60 | 50/60 | 50/60 | 50/60 |
| Max. Output Current (A) | 13.6 | 16 | 19 | 22.8 | 27.3 |
| Output Power Factor | ~1 (Adjustable from 0.8 leading to 0.8 lagging) | | | | |
| Output THDi (@Nominal Output) | <3% | <3% | <3% | <3% | <3% |
| Efficiency | | | | | |
| Max. Efficiency | 97.8% | 97.8% | 97.8% | 97.8% | 97.8% |
| Euro Efficiency | 97.5% | 97.5% | 97.5% | 97.5% | 97.5% |
| Protection | | | | | |
| Anti-islanding Protection | Integrated | Integrated | Integrated | Integrated | Integrated |
| Input Reverse Polarity Protection | Integrated | Integrated | Integrated | Integrated | Integrated |
| Insulation Resistor Detection | Integrated | Integrated | Integrated | Integrated | Integrated |
| Residual Current Monitoring Unit | Integrated | Integrated | Integrated | Integrated | Integrated |
| Output Over Current Protection | Integrated | Integrated | Integrated | Integrated | Integrated |
| Output Short Protection | Integrated | Integrated | Integrated | Integrated | Integrated |
| Output Over Voltage Protection | Integrated | Integrated | Integrated | Integrated | Integrated |
| General Data | | | | | |
| Operating Temperature Range (°C) | -25~60 | -25~60 | -25~60 | -25~60 | -25~60 |
| Relative Humidity | 0~100% | 0~100% | 0~100% | 0~100% | 0~100% |
| Operating Altitude (m) | ≤4000 | ≤4000 | ≤4000 | ≤4000 | ≤4000 |
| Cooling | Natural Convection | Natural Convection | Natural Convection | Natural Convection | Natural Convection |
| Noise (dB) | <25 | <25 | <25 | <25 | <25 |
| User Interface | LCD & LED | LCD & LED | LCD & LED | LCD & LED | LCD & LED |
| Communication | RS485 or WiFi | RS485 or WiFi | RS485 or WiFi | RS485 or WiFi | RS485 or WiFi |
| Weight (kg) | 13 | 13 | 13 | 13 | 13.5 |
| Size (Width*Height*Depth mm) | 354*433*147 | 354*433*147 | 354*433*147 | 354*433*147 | 354*433*147 |
| Protection Degree | IP65 | IP65 | IP65 | IP65 | IP65 |
| Night Self Consumption (W) | <1 | <1 | <1 | <1 | <1 |
| Topology | Transformerless | Transformerless | Transformerless | Transformerless | Transformerless |
| 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 | | | VDE-AR-N 4105, VDE0126-1-1, EN50438(PL), EN50438(SW), AS4777.2, G59, IEC61727, MEA, PEA, 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 | | | | |

*1: For CEI 0-21 Nominal Output Power GW3000D-NS is 2700, GW3680D-NS is 3350, GW4200D-NS is 3800, GW5000D-NS is 4540, GW6000D-NS is 5450. For AS4777, Nominal Output Power GW5000D-NS is 4999.

 Color Options