

GOODWE

DNS Series

3-6kW | 2 MPPTs | Single Phase

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. With a low start-up voltage of only 80V and the widest MPPT voltage range of 80-550V, these inverters can provide greater options for your household system. The GoodWe DNS series is also extremely light, 30% lighter than other inverters.



80V Start-up Voltage



Wide Range of Mppt Voltage



Fanless and Noiseless



Small, Light weight & Easy to install



Export control



Flexible communication methods

| Technical Data | | | | | | | | | | | | |
|------------------------------------|---|--------------------|--------------------|--------------------|----------------------|--------------------|---------------------------------|--------------------|--------------------|--------------------|--------------------|--|
| | GW2900D-NS | GW3000D-NS | GW3600D-NS | GW4200D-NS | GW5000D-NS | GW6000D-NS | GW3000T-DS | GW3600T-DS | GW4200T-DS | GW5000T-DS | GW6000T-DS | |
| Input | | | | | | | | | | | | |
| Max. Input Voltage (V) | 535 | 600 | 600 | 600 | 600 | 600 | 600 | 600 | 600 | 600 | 600 | |
| MPPT Operating Voltage Range (V) | 80-435 | 80~550 | 80~550 | 80~550 | 80~550 | 80~550 | 80~550 | 80~550 | 80~550 | 80~550 | 80~550 | |
| Start-up Voltage (V) | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | |
| Nominal Input Voltage (V) | 230 | 360 | 360 | 360 | 360 | 360 | 360 | 360 | 360 | 360 | 360 | |
| Max. Input Current per MPPT (A) | 12.5 / 12.5 | 11/11 | 11/11 | 11/11 | 11/11 | 11/11 | 13/13 | 13/13 | 13/13 | 13/13 | 13/13 | |
| Number of MPPTs | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | |
| Number of Strings per MPPT | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| Output | | | | | | | | | | | | |
| Nominal Output Power (W) | 2900 | 3000 ^{*2} | 3680 ^{*2} | 4200 ^{*2} | 5000 ^{*2*3} | 6000 ^{*2} | 3000 ^{*2} | 3680 ^{*2} | 4200 ^{*2} | 5000 ^{*2} | 6000 ^{*2} | |
| Nominal Output Apparent Power (VA) | 2900 | 3000 | 3680 | 4200 | 5000 ^{*4} | 6000 | 3000 | 3680 | 4200 | 5000 | 6000 | |
| Max. AC Apparent Power (VA) | 2900 | 3000 | 3680 | 4200 | 5000 | 6000 | 3000 | 3680 | 4200 | 5000 | 6000 | |
| Nominal Output Voltage (V) | 220/230 | 220/230 | 220/230 | 220/230 | 220/230 | 220/230 | 220/230 | 220/230 | 220/230 | 220/230 | 220/230 | |
| Nominal AC Grid Frequency (Hz) | 60 | 50/60 | 50/60 | 50/60 | 50/60 | 50/60 | 50/60 | 50/60 | 50/60 | 50/60 | 50/60 | |
| Max. Output Current (A) | 22.9 | 13.6 | 16 | 19 | 22.8 | 27.3 | 13.6 | 16 | 19 | 22.8 | 27.3 | |
| Power Factor | ~1 (Adjustable from 0.8 leading to 0.8 lagging) | | | | | | | | | | | |
| Max. Total Harmonic Distortion | <3% | <3% | <3% | <3% | <3% | <3% | <3% | <3% | <3% | <3% | <3% | |
| Efficiency | | | | | | | | | | | | |
| Max. Efficiency | 96.0% | 97.8% | 97.8% | 97.8% | 97.8% | 97.8% | 97.8% | 97.8% | 97.8% | 97.8% | 97.8% | |
| European Efficiency | 95.6% | 97.5% | 97.5% | 97.5% | 97.5% | 97.5% | 97.5% | 97.5% | 97.5% | 97.5% | 97.5% | |
| Protection | | | | | | | | | | | | |
| Residual Current Monitoring | Integrated | Integrated | Integrated | Integrated | Integrated | Integrated | Integrated | Integrated | Integrated | Integrated | Integrated | |
| DC Reverse Polarity Protection | Integrated | Integrated | Integrated | Integrated | Integrated | Integrated | Integrated | Integrated | Integrated | Integrated | Integrated | |
| Anti-islanding Protection | Integrated | Integrated | Integrated | Integrated | Integrated | Integrated | Integrated | Integrated | Integrated | Integrated | Integrated | |
| AC Overcurrent Protection | Integrated | Integrated | Integrated | Integrated | Integrated | Integrated | Integrated | Integrated | Integrated | Integrated | Integrated | |
| AC Short Circuit Protection | Integrated | Integrated | Integrated | Integrated | Integrated | Integrated | Integrated | Integrated | Integrated | Integrated | Integrated | |
| AC Overvoltage Protection | Integrated | Integrated | Integrated | Integrated | Integrated | Integrated | Integrated | Integrated | Integrated | Integrated | Integrated | |
| DC Surge Protection | Type III(Type II Optional) | Type III | Type III | Type III | Type III | Type III | Type III(Type II Optional) | | | | | |
| AC Surge Protection | Type III | Type III | Type III | Type III | Type III | Type III | Type III | Type III | Type III | Type III | Type III | |
| General Data | | | | | | | | | | | | |
| Operating Temperature Range (°C) | -25~60 | -25~60 | -25~60 | -25~60 | -25~60 | -25~60 | -25~60 | -25~60 | -25~60 | -25~60 | -25~60 | |
| Relative Humidity | 0~100% | 0~100% | 0~100% | 0~100% | 0~100% | 0~100% | 0~100% | 0~100% | 0~100% | 0~100% | 0~100% | |
| Max. Operating Altitude (m) | 4000 | 4000 | 4000 | 4000 | 4000 | 4000 | 4000 | 4000 | 4000 | 4000 | 4000 | |
| Cooling Method | Natural Convection | | | | | | Natural Convection | | | | | |
| Display | LED/LCD/Wi-Fi+APP | | | | | | LED/LCD/Wi-Fi+APP/Bluetooth+APP | | | | | |
| Communication | RS485 / Wi-Fi / LAN | | | | | | RS485/Wi-Fi / 4G/2G / LAN | | | | | |
| Weight (kg) | 13 | 13 | 13 | 13 | 13 | 13.5 | 13 | 13 | 13 | 13 | 13.5 | |
| Dimension WxHxD (mm) | 354×433×147 | | | | | | | | | | | |
| Topology | Non-isolated | | | | | | | | | | | |
| Self-consumption at Night (W) | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | |
| Ingress Protection Rating | IP65 | IP65 | IP65 | IP65 | IP65 | IP65 | IP65 | IP65 | IP65 | IP65 | IP65 | |

*1 : For Australia/New Zealand-Max Input Power(W)GW3000T-DS or GW3000D-NS is 4000,GW3600T-DS or GW3600D-NS is 4680,GW4200T-DS or GW4200D-NS is 5600,GW5000T-DS or GW5000D-NS is 6667

*2 : For CEI 0-21 Nominal Output Power GW3000T-DS or GW3000D-NS is 2700,GW3600T-

DS or GW3600D-NS is 3350,GW4200T-DS or GW4200D-NS is 3800,GW5000T-DS or GW5000D-NS is 4540,GW6000T-DS or GW6000D-NS is 5450.

*3 : For Australia/New Zealand-Nominal Output Power (W) GW5000D-NS is 4999

*4 : For Australia/New Zealand-Nominal Output Apparent Power (W) GW5000D-NS is 4999