



D-NS Series(Dual-MPPT, Single-Phase)

GoodWe D-NS series inverter adopts cutting-edge technology in photovoltaic fields, designed under modern industrial concept. Inheriting all the excellent traits from GoodWe SS and DS series, the D-NS series is much smarter in size and weight. Excellent cooling design, comprehensive software and hardware technology is guaranteed to maximize the life-span of these inverters.

- Up to 10 safety measurements
- DC switch
- IP65 dust-proof and water-proof
- 45°C full-load output
- Built-in anti-reverse function
- 30% lighter than similar products
- 20% Volume optimization
- Wide range of MPPT voltage
- Multiple monitoring and communication
- Fanless low-noise design

| Technical Data | GW3000D-NS | GW3600D-NS | GW4200D-NS | GW5000D-NS |
|---------------------------------------|--|--|--|---|
| DC Input Data | | | | |
| Max. recommended PV Power [W] | 3900 | 4680 | 5460 | 6500 |
| Nominal DC Power [W] | 3300 | 3960 | 4600 | 5500 |
| Max. DC voltage [V] | 580 | 580 | 580 | 580 |
| MPPT voltage range [V] | 80~550 | 125~550 | 125~550 | 125~550 |
| Starting voltage [V] | 120 | 120 | 120 | 120 |
| Max. DC current [A] | 11/11 | 11/11 | 11/11 | 11/11 |
| No. of DC connectors | 2 | 2 | 2 | 2 |
| No. of MPPTs | 2 (can parallel) | 2 (can parallel) | 2 (can parallel) | 2 (can parallel) |
| DC connector | MC4/ Phoenix/ Amphenol | MC4/ Phoenix/ Amphenol | MC4/ Phoenix/ Amphenol | MC4/ Phoenix/ Amphenol |
| AC Output Data | | | | |
| Normal AC power [W] | 3000 | 3680 | 4200 | 4950* |
| Max. AC power [W] | 3000 | 3680 | 4200 | 4950* |
| Max. AC current [A] | 13.6 | 16 | 19 | 22.8 |
| Normal AC output | 50/60Hz; 230Vac | | 50/60Hz; 230Vac | |
| AC output range | 45~55Hz/55~65Hz; 180~270Vac | | 45~55Hz/55~65Hz; 180~270Vac | |
| THDi | <1.5% | | <1.5% | |
| Power factor | 0.8 leading~0.8 lagging | | 0.8 leading~0.8 lagging | |
| Grid connection | Single phase | | Single phase | |
| Efficiency | | | | |
| Max. efficiency | 97.8% | 97.8% | 97.8% | 97.8% |
| Euro efficiency | >97.5% | >97.5% | >97.5% | >97.5% |
| MPPT adaptation efficiency | 99.9% | 99.9% | 99.9% | 99.9% |
| Protection | | | | |
| Residual current monitoring unit | Integrated | Integrated | Integrated | Integrated |
| Anti-islanding protection | Integrated | Integrated | Integrated | Integrated |
| DC switch | Integrated (optional) | Integrated (optional) | Integrated (optional) | Integrated (optional) |
| AC over current protection | Integrated | Integrated | Integrated | Integrated |
| Insulation monitoring | Integrated | Integrated | Integrated | Integrated |
| Certifications & Standards | | | | |
| Grid regulation | VDE-AR-N 4105, EN50438, VDE0126-1-1, AS4777.2&.3, G83/G59 | VDE-AR-N 4105, G83/G59, VDE0126-1-1, EN50438, AS4777.2&.3, MEA,PEA | VDE-AR-N 4105, EN50438, VDE0126-1-1, G83/G59, AS4777.2&.3, G83/G59 | VDE-AR-N 4105, EN50438, VDE0126-1-1, G83/G59, AS4777.2&.3, MEA, PEA |
| Safety | IEC62109-1&-2, AS3100 | | | |
| EMC | IEC/EN 61000-6-1,IEC/EN 61000-6-2,IEC/EN 61000-6-3,IEC/EN 61000-6-4,IEC/EN 61000-3-11, IEC/EN 61000-3-12 | | | |
| General Data | | | | |
| Dimensions (WxHxD) [mm] | 347*432*145 | 347*432*145 | 347*432*145 | 347*432*145 |
| Weight [kg] | 14 | 14 | 14 | 14 |
| Mounting | Wall bracket | Wall bracket | Wall bracket | Wall bracket |
| Ambient temperature range | -25~60°C (>45°C derating) | -25~60°C (>45°C derating) | -25~60°C (>45°C derating) | -25~60°C (>45°C derating) |
| Relative humidity | 0~95% | 0~95% | 0~95% | 0~95% |
| Max. operating altitude | 4000m(> 3000m derating) | 4000m(> 3000m derating) | 4000m(> 3000m derating) | 4000m(> 3000m derating) |
| Protection degree | IP65 | IP65 | IP65 | IP65 |
| Topology | Transformerless | Transformerless | Transformerless | Transformerless |
| Night power consumption [W] | <1 | <1 | <1 | <1 |
| Cooling | Natural convection | Natural convection | Natural convection | Natural convection |
| Noise emission [dB] | <25 | <25 | <25 | <25 |
| Display | LCD | LCD | LCD | LCD |
| Communication | USB2.0; RS485 or WiFi | USB2.0; RS485 or WiFi | USB2.0; RS485 or WiFi | USB2.0; RS485 or WiFi |
| Standard warranty [years] | 5/10/15/20/25 (optional) | 5/10/15/20/25 (optional) | 5/10/15/20/25 (optional) | 5/10/15/20/25 (optional) |

*Note: 4600W for VDE-AR-N4105