




Smart and quiet operation with maximised energy yield

- ✓ Maximised energy output
- ✓ Smart and efficient operation
- ✓ Modern and compact design
- ✓ Highest safety standards

The DNS G3 inverter incorporates functionalities to optimise energy yield while running safely, reliably and quietly. Enabling current input up to 16A, it is compatible with high-power PV modules. With its modern design and smart home readiness, the DNS G3 offers a flexible solution for homeowners seeking to future-proof their energy system. Additional functionalities, including power export limiting and load monitoring, can be provided with GoodWe HomeKit 1000 or GM1000.

-  Up to 16A per string
-  Optional AFCI function
-  Smart energy management



Technical Data	GW3000- DNS-30	GW3600- DNS-30	GW4200- DNS-30	GW5000- DNS-30	GW5000- DNS-EU30	GW6000- DNS-30
Input						
Max. Input Voltage (V)	600					
MPPT Operating Voltage Range (V)	40 ~ 560					
Start-up Voltage (V)	50					
Nominal Input Voltage (V)	360					
Max. Input Current per MPPT (A)	16					
Max. Short Circuit Current per MPPT (A)	23					
Number of MPP Trackers	2					
Number of Strings per MPPT	1					
Output						
Nominal Output Power (W)	3000	3600	4200	5000	5000	6000
Nominal Output Apparent Power (VA)	3000	3600	4200	5000	5000	6000
Max. AC Active Power (W)	3300	3960 ^{*1}	4620 ^{*1}	5500	5000	6600
Max. AC Apparent Power (VA)	3300	3960 ^{*1}	4620 ^{*1}	5500	5000	6600
Nominal Output Voltage (V)	220 / 230 / 240					
Output Voltage Range (V) (According to local standard)	196 ~ 311					
Nominal AC Grid Frequency (Hz)	50 / 60					
AC Grid Frequency Range (Hz)	45 ~ 55 / 55 ~ 65					
Max. Output Current (A)	14.4	17.3 ^{*1}	20.1 ^{*1}	24.0	24.0	28.8
Power Factor	~ 1 (Adjustable from 0.8 leading to 0.8 lagging)					
Max. Total Harmonic Distortion	<3%					
Efficiency						
Max. Efficiency	97.9%					
European Efficiency	97.0%	97.0%	97.2%	97.3%	97.3%	97.4%
Protection						
PV String Current Monitoring	Integrated					
PV Insulation Resistance Detection	Integrated					
Residual Current Monitoring	Integrated					
PV Reverse Polarity Protection	Integrated					
Anti-islanding Protection	Integrated					
AC Overcurrent Protection	Integrated					
AC Short Circuit Protection	Integrated					
AC Overvoltage Protection	Integrated					
DC Switch	Integrated					
DC Surge Protection	Type III (Type II Optional)					
AC Surge Protection	Type III (Type II Optional)					
AFCI	Optional					
Remote Shutdown	Integrated					
Power Supply at Night	Optional					
General Data						
Operating Temperature Range (°C)	-25 ~ +60					
Relative Humidity	0 ~ 100%					
Max. Operating Altitude (m)	4000					
Cooling Method	Natural Convection					
User Interface	LED, LCD, WLAN + APP				LED, LCD (Optional), WLAN + APP	LED, LCD, WLAN + APP
Communication	WiFi, RS485 or LAN or 4G or DI (Ripple Control)				WiFi, RS485 or LAN or 4G or DI (Ripple Control or DRM) (Optional)	WiFi, RS485 or LAN or 4G or DI (Ripple Control)
Communication Protocols	Modbus-RTU (SunSpec Compliant)					
Weight (kg)	12.8	12.8	12.8	12.8	12.8	13.4
Dimension (W × H × D mm)	350 × 410 × 143					
Typical Noise Emission (dB)	<25					
Topology	Non-isolated					
Self-consumption at Night (W)	<1					
Ingress Protection Rating	IP66					
DC Connector	MC4 (4 ~ 6mm ²)					
AC Connector	Plug and play connector (Max.6mm ²)					

*1: For Netherland Max. AC Active Power (W) and Max. AC Apparent Power (VA) GW3600-DNS-30 is 3600, GW4200-DNS-30 is 4200; Max. Output Current (A) and Nominal Output Current (A) GW3600-DNS-30 is 15.7, GW4200-DNS-30 is 18.3.

*: All pictures shown are for reference only. Actual appearance may vary.

*: Optional functions or devices are purchased separately.

*: Please visit GoodWe website for the latest certificates.