

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	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	6000
Nominal Output Apparent Power (VA)	3000	3600	4200	5000	6000
Max. AC Active Power (W) ^{*1}	3300	3960 ^{*3}	4620	5500	6600
Max. AC Apparent Power (VA) ^{*1}	3300	3960 ^{*3}	4620	5500	6600
Nominal Output Voltage (V)	220 / 230 / 240				
Output Voltage Range (V)	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 ^{*2}	20.1	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%	97.4%
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				
Communication	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	13.4
Dimension (W x H x D mm)	350 x 410 x 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.

*2: For England Max. Output Current (A) & Nominal Output Current (A) GW3600-DNS-30 is 16A.

*3: For England Max. AC Active Power (W) & Max. AC Apparent Power (VA) GW3600-DNS-30 is 3600.

*: 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.