

GOODWE

Smart and quiet operation with maximised energy yield

- ✓ Maximised energy output
- ✓ Modern and compact design
- ✓ Smart and efficient operation
- ✓ 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) ⁴				600		
MPPT Operating Voltage Range (V) ⁵				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) ¹¹		3300	3960 ³	4620	5500	6600
Max. AC Apparent Power (VA) ¹¹		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		
Communication Protocols				Modbus RTU, Modbus TCP		
Weight (kg)		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 ~ 6mm²)		
AC Connector				Plug and play connector (Max.6mm²)		

*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.

*4: When the input voltage ranges from 560V to 600V, the inverter will enter the standby state. When the input voltage returns to the MPPT operating voltage range of 40V to 560V, the inverter will resume normal operating state.

*5: Please refer to the user manual for the MPPT Voltage Range at Nominal Power.

*: 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.