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

DNS G3 Series String Inverter I 3 - 6kW I 2 MPPTs I Single Phase **EMEA**

DNS G3 Series

GOODWE

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)[*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		
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.

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This datasheet provides information about products offered in the EMEA region.