GOODWE

DNS G4 Series

3-6kW I Single Phase I 2 MPPTs

As the fourth generation of GoodWe's proven single-phase, dual-MPPT residential inverter, the DNS G4 series delivers enhanced performance, reliability, functionality, and safety-offering homeowners a more powerful and versatile solution for solar needs.

Wide Compatibility

- Compatible with mainstream modules
- 20A per string & 200% PV oversizing

Friendly & Thoughtful Design

- Quite operation <25dB
- Easy installation, 31% lighter

Superb Safety & Reliability

- Built-in rapid shutdown transmitter
- AI-driven AFCI 3.0 for safety[1]

Flexible & Adaptable Applications

- Flexible paralleling with GoodWe MS G4 inverter
- Easy paralleling via GoodWe smart dongle Ezlink3000

1: Optional functions or devices are purchased separately.

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Technical Data	GW3K-DNS-G40	GW3.6K-DNS-G40	GW4.2K-DNS-G40	GW5K-DNS-G40	GW6K-DNS-G40
Input					
Max.Input Voltage (V)[*2]			600		
MPPT Operating Voltage Range (V)[*3]			40 ~ 560		
Start-up Voltage (V)			50		
Nominal Input Voltage (V)			360		
Max. Input Current per MPPT (A)			20		
Max. Short Circuit Current per MPPT (A)			26		
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)	3000	3600	4200	5000	6000
Max. AC Apparent Power (VA)	3000	3600	4200	5000	6000
Nominal Output Voltage (V)			220 / 230 / 240, L / N / PE		
Output Voltage Range (V)			196 ~ 311 (according to local standard)		
Nominal AC Grid Frequency (Hz)			50 / 60		
AC Grid Frequency Range (Hz)			45 ~ 55 / 55 ~ 65		
Max. Output Current (A)	13.7	16.4[*1]	19.1	22.8	27.3
Power Factor			~1 (Adjustable from 0.8 leading to 0.8 lagging)		
Max. Total Harmonic Distortion			<3%		
Efficiency					
Max. Efficiency			98.1%		
European Efficiency	97.2%	97.2%	97.3%	97.4%	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 (PV II Optional)		
DC Surge Protection			Type II		
AC Surge Protection			Type II		
AFCI			Optional		
Emergency Power Off			Optional		
Rapid Shutdown			Optional		
Remote Shutdown			Optional		
Power Supply at Night			Optional		
General Data					
Operating Temperature Range (℃)			-25 ~ +60		
Relative Humidity			0 ~ 100%		
Max. Operating Altitude (m)			<4000		
Cooling Method			Natural Convection		
User Interface			LED + LCD / WiFi + APP / Bluetooth + APP		
Communication			RS485, WIFI, LAN, Bluetooth, 4G		
Communication Protocols			Modbus, Sunspec		
Weight (kg)			9.2		
Dimension (W × H × D mm)			358 × 323 × 165		
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: About GW3.6K-DNS-G40 for the UK market, both nominal output current and max. output current are 16A.
*2: 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.
*3: Please refer to the user manual for the MPPT Voltage Range at Nominal Power.
*: Please visit GoodWe website for the latest certificates.
*: All pictures shown are for reference only. Actual appearance may vary.

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