

GOODWE

Smart and silent operation with maximised energy yield and flexible system design

- ✓ Flexible and efficient system expansion
- ✓ Quiet operation, compact design
- ✓ Maximised energy output and power supply at night
- ✓ Highest safety and cybersecurity standards

The fourth generation of GoodWe's DNS single-phase inverter with dual MPPTs is a powerful and compact solution for residential solar installations. Designed to support the latest high-power PV modules, the DNS G4 allows up to 200% PV oversizing and 20A input current per string. It offers superb compatibility, flexibility, and easy system expansion with MS G4 series via the EzLink3000 smart dongle – with no need for a datalogger. DNS G4 is quiet (<25dB), lightweight, and cyber-secure. Optional features include AI-driven Arc Fault Circuit Interrupter (AFCI) 3.0, built-in Rapid Shutdown 2.0 transmitter, and Type II SPD on both AC and DC sides. With wide voltage range, modular design, and smart meter integration, DNS G4 delivers optimised performance and highest safety standards.



200% PV oversizing & 20A max per string



Optional AI-driven AFCI 3.0 & standard SPD Type II (AC & DC)



Easy paralleling via EzLink3000 smart dongle

DNS G4 Series

String Inverter | 3 - 6kW | 2 MPPTs | Single Phase

EMEA

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				
Remote Shutdown	Integrated				
Power Supply at Night	Integrated				
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 / WiFi + APP / Bluetooth + APP				
Communication	RS485, WIFI, LAN, Bluetooth, 4G				
Communication Protocols	Modbus,Sunspec				
Weight (kg)	9.2				
Dimension (W x H x D mm)	358 x 323 x 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.