

**GOODWE**

# DNS G3 Series

3-6kW | Single Phase  
2 MPPTs

The GoodWe DNS G3 series inverter is designed for single-phase residential applications. Integrated with high-current input and DC input oversizing capabilities, the DNS G3 provides optimised power generation and substantial return on investment. With its lighter and fanless compact design, the DNS G3 inverter provides a reliable power supply that runs at a super quiet operation of less than 25dB. The inverter also takes safety measures including optional Arc Fault Current Interrupter (AFCI) and Type II Surge Protection Device (SPD) on both sides to protect the system from electrical fire and lightning hazards in extreme environments, for guaranteed safety.



## Smart Control & Monitoring

- 24/7 load consumption monitoring\*
- Multiple communication protocols supported



## Optimal Generation

- Max. 16A input current per string
- 150% DC input oversizing & 110% AC output overloading



## Superb Safety & Reliability

- Optional AFCI preventing electrical fires\*
- Optional AC & DC Type II SPD & SPD failure alarm\*



## Friendly & Thoughtful Design

- IP66 ingress protection
- Low noise level thanks to fanless cooling

Technical Data	GW3000-DNS-30	GW3600-DNS-30	GW4200-DNS-30	GW5000-DNS-30	GW6000-DNS-30
<b>Input</b>					
Max. Input Power (W)	4500	5400	6300	7500	9000
Max. Input Voltage (V)	600	600	600	600	600
MPPT Operating Voltage Range (V)	40 ~ 560	40 ~ 560	40 ~ 560	40 ~ 560	40 ~ 560
Start-up Voltage (V)	50	50	50	50	50
Nominal Input Voltage (V)	360	360	360	360	360
Max. Input Current per MPPT (A)	16	16	16	16	16
Max. Short Circuit Current per MPPT (A)	23	23	23	23	23
Number of MPP Trackers	2	2	2	2	2
Number of Strings per MPPT	1	1	1	1	1
PV Input Operating Voltage Range	40 ~ 600	40 ~ 600	40 ~ 600	40 ~ 600	40 ~ 600
<b>Output</b>					
Nominal Output Power (W)	3000	3600	4200 <sup>*1</sup>	5000	6,000
Nominal Output Apparent Power (VA)	3000	3600	4200 <sup>*1</sup>	5000	6,000
Max. AC Active Power (W) <sup>*2</sup>	3300	3960	4620 <sup>*1*3</sup>	5500	6,600
Max. AC Apparent Power (VA) <sup>*2</sup>	3300	3960	4620 <sup>*1*3</sup>	5500	6,600
Nominal Output Voltage (V)	220 / 230 / 240	220 / 230 / 240	220 / 230 / 240	220 / 230 / 240	220 / 230 / 240
Nominal AC Grid Frequency (Hz)	50 / 60	50 / 60	50 / 60	50 / 60	50/60
Max / Rated Output Current (A)	14.4	17.3 <sup>*3</sup>	20.1 <sup>*3</sup>	24.0	28.8
Power Factor	~1 (Adjustable from 0.8 leading to 0.8 lagging)				
Max. Total Harmonic Distortion	<3%	<3%	<3%	<3%	<3%
<b>Efficiency</b>					
Max. Efficiency	97.9%	97.9%	97.9%	97.9%	97.9%
European Efficiency	97.0%	97.0%	97.2%	97.3%	97.4%
<b>Protection</b>					
PV String Current Monitoring	Integrated	Integrated	Integrated	Integrated	Integrated
PV Insulation Resistance Detection	Integrated	Integrated	Integrated	Integrated	Integrated
Residual Current Monitoring	Integrated	Integrated	Integrated	Integrated	Integrated
PV Reverse Polarity Protection	Integrated	Integrated	Integrated	Integrated	Integrated
Anti-islanding Protection	Integrated	Integrated	Integrated	Integrated	Integrated
AC Overcurrent Protection	Integrated	Integrated	Integrated	Integrated	Integrated
AC Short Circuit Protection	Integrated	Integrated	Integrated	Integrated	Integrated
AC Overvoltage Protection	Integrated	Integrated	Integrated	Integrated	Integrated
DC Switch	Integrated	Integrated	Integrated	Integrated	Integrated
DC Surge Protection	Type III (Type II Optional)				
AC Surge Protection	Type III (Type II Optional)				
AFCI	Optional	Optional	Optional	Optional	Optional
<b>General Data</b>					
Operating Temperature Range (°C)	-25 ~ +60	-25 ~ +60	-25 ~ +60	-25 ~ +60	-25 ~ +60
Relative Humidity	0 ~ 100%	0 ~ 100%	0 ~ 100%	0 ~ 100%	0 ~ 100%
Max. Operating Altitude (m)	3000	3000	3000	3000	3000
Cooling Method	Natural Convection				
User Interface	LED, LCD (Optional), WLAN + APP				
Communication	WiFi, RS485 or LAN or 4G or DI (Ripple Control or DRM) (Optional)				
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	350 x 410 x 143	350 x 410 x 143	350 x 410 x 143	350 x 410 x 143
Noise Emission (dB)	<25	<25	<25	<25	<25
Topology	Non-isolated	Non-isolated	Non-isolated	Non-isolated	Non-isolated
Self-consumption at Night (W)	<1	<1	<1	<1	<1
Ingress Protection Rating	IP66	IP66	IP66	IP66	IP66
DC Connector	MC4 (4 ~ 6mm <sup>2</sup> )	MC4 (4 ~ 6mm <sup>2</sup> )	MC4 (4 ~ 6mm <sup>2</sup> )	MC4 (4 ~ 6mm <sup>2</sup> )	MC4 (4 ~ 6mm <sup>2</sup> )
AC Connector	Plug and play connector (Max.6mm <sup>2</sup> )				
Country of Manufacture	China	China	China	China	China

\*1: For Malaysia GW4200-DNS-30 Nominal Output Power (W) and Nominal Output Apparent Power (VA) and Max. AC Active Power (W) and Max. AC Apparent Power (VA) is 4000.  
 \*2: For Belgium Max. AC Active Power (W) and Max. AC Apparent Power (VA) GW3000-DNS-30 is 3000, GW3600-DNS-30 is 3600, GW4200-DNS-30 is 4200, GW5000-DNS-30 is 5000, GW6000-DNS-30 is 6000; Nominal Output Current (A) GW3000-DNS-30 is 13.0, GW3600-DNS-30 is 15.7, GW4200-DNS-30 is 18.3, GW5000-DNS-30 is 21.7, GW6000-DNS-30 is 26.1.  
 \*3: 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.  
 \*: 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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