

# GOODWE

## DNS Series

### 3-6kW | Single Phase | 2 MPPTs

GoodWe DNS series is a perfect match for residential installations thanks to its compact size and light weight. Manufactured for durability and longevity under modern industrial standards, GoodWe DNS series is IP65 rated so it can be mounted either inside or outside your home. With a low start-up voltage of only 80V and the widest MPPT voltage range of 80-550V, these inverters can provide greater options for your household system. The GoodWe DNS series is also extremely light, 30% lighter than other inverters.



80V Start-up Voltage



Wide Range of Mpp Voltage



Fanless and Noiseless



Small, Light weight & Easy to install



Export control



Flexible communication methods

Technical Data		GW3000D-NS	GW3600D-NS	GW4200D-NS	GW5000D-NS	GW6000D-NS	GW3000T-DS	GW3600T-DS	GW4200T-DS	GW5000T-DS	GW6000T-DS
<b>Input</b>											
Max. Input Voltage (V)	600										
MPPT Operating Voltage Range (V)	80 ~ 550										
Start-up Voltage (V)	80										
Nominal Input Voltage (V)	360										
Max. Input Current per MPPT (A)	11	11	11	11	11	13	13	13	13	13	13
Max. Short Circuit Current per MPPT (A)	13.8	13.8	13.8	13.8	13.8	16.3	16.3	16.3	16.3	16.3	16.3
Number of MPP Trackers	2										
Number of Strings per MPPT	1										
<b>Output</b>											
Nominal Output Power (W) <sup>*1</sup>	3000	3680	4200	5000	6000	3000	3680	4200	5000	6000	6000
Nominal Output Apparent Power (VA)	3000	3680	4200	5000	6000	3000	3680	4200	5000	6000	6000
Max. AC Active Power (W)	3000	3680	4200	5000	6000	3000	3680	4200	5000	6000	6000
Max. AC Apparent Power (VA)	3000	3680	4200	5000	6000	3000	3680	4200	5000	6000	6000
Nominal Output Voltage (V)	220 / 230										
Nominal AC Grid Frequency (Hz)	50 / 60										
Max. Output Current (A)	13.6	16.0	19.0	22.8	27.3	13.6	16.0	19.0	22.8	27.3	27.3
Power Factor	~1 (Adjustable from 0.8 leading to 0.8 lagging)										
Max. Total Harmonic Distortion	<3%										
<b>Efficiency</b>											
Max. Efficiency	97.8%										
European Efficiency	97.5%										
<b>Protection</b>											
PV String Current Monitoring	-	-	-	-	-	-	Integrated	Integrated	Integrated	Integrated	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	Optional										
DC Surge Protection	Type III	Type III	Type III	Type III	Type III	Type III	Type III(Type II Optional)				
AC Surge Protection	Type III										
AFCI	-	-	-	-	-	-	Optional	Optional	Optional	Optional	Optional
Remote Shutdown	Optional										
<b>General Data</b>											
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 4G or 2G or LAN (Optional)										
Weight (kg)	13.0	13.0	13.0	13.0	13.5	13.0	13.0	13.0	13.0	13.0	13.5
Dimension (W x H x D mm)	354 x 433 x 147										
Noise Emission (dB)	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<50
Topology	Non-isolated										
Self-consumption at Night (W)	<1										
Ingress Protection Rating	IP65										
DC Connector	MC4										
AC Connector	Plug and play connector										

\*1: For CEI 0-21, Nominal Output Power GW3000T-DS or GW3000D-NS is 2700, GW3600T-DS or GW3600D-NS is 3350, GW4200T-DS or GW4200D-NS is 3800, GW5000T-DS or GW5000D-NS is 4540, GW6000T-DS or GW6000D-NS is 5450.

\*: Please visit GoodWe website for the latest certificates.