



GOODWE
YOUR SOLAR ENGINE

DNS Series

3-6kW | 2 MPPTs | Single Phase

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.



Start-up voltage @80V



Wide range of MPPT voltage



Small, light weight and easy to install



Fanless and noiseless



Built-in anti-reverse function

Technical Data	GW3000D-NS	GW3600D-NS	GW4200D-NS	GW5000D-NS	GW6000D-NS
PV String Input Data					
Max. Input Power (W)	3900	4680	5460	6500	7200
Max. Input Voltage (V)	600	600	600	600	600
MPPT Range (V)	80~550	80~550	80~550	80~550	80~550
Start-up Voltage (V)	80	80	80	80	80
Nominal Input Voltage (V)	360	360	360	360	360
Max. Input Current per MPPT (A)	11 / 11	11 / 11	11 / 11	11 / 11	11 / 11
Max. Short Circuit Current per MPPT (A)	13.8 / 13.8	13.8 / 13.8	13.8 / 13.8	13.8 / 13.8	13.8 / 13.8
Number of MPPTs	2	2	2	2	2
Number of Strings per MPPT	1	1	1	1	1
AC Output Data					
Nominal Output Power (W)	3000*1	3680*1	4200*1	5000*1	6000*1
Nominal Output Apparent Power (VA)	3000	3680	4200	5000	6000
Max. AC Apparent Power (VA)	3000	3680	4200	5000	6000
Nominal Output Voltage (V)	220 / 230	220 / 230	220 / 230	220 / 230	220 / 230
Nominal AC Grid Frequency (Hz)	50 / 60	50 / 60	50 / 60	50 / 60	50 / 60
Max. Output Current (A)	13.6	16	19	22.8	27.3
Nominal Output Current (A)	13.6 / 13	16 / 15.6	19 / 18.2	22.8 / 21.7	27.3 / 26.1
Output Power Factor	~1 (Adjustable from 0.8 leading to 0.8 lagging)				
Max. Total Harmonic Distortion	<3%	<3%	<3%	<3%	<3%
Efficiency					
Max. Efficiency	97.8%	97.8%	97.8%	97.8%	97.8%
European Efficiency	97.5%	97.5%	97.5%	97.5%	97.5%
Protection					
Anti-Islanding Protection	Integrated	Integrated	Integrated	Integrated	Integrated
DC Reverse Polarity Protection	Integrated	Integrated	Integrated	Integrated	Integrated
Residual Current Monitoring Unit	Integrated	Integrated	Integrated	Integrated	Integrated
AC Over Current Protection	Integrated	Integrated	Integrated	Integrated	Integrated
AC Short Protection	Integrated	Integrated	Integrated	Integrated	Integrated
AC Over Voltage Protection	Integrated	Integrated	Integrated	Integrated	Integrated
DC Surge Arrester	Type III				
AC Surge Arrester	Type III				
General Data					
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%
Operating Altitude (m)	≤4000	≤4000	≤4000	≤4000	≤4000
Cooling Method	Natural Convection				
Display	LCD / LCD / WiFi+App				
Communication	RS485 / WiFi / LAN				
Weight (Kg)	13	13	13	13	13.5
Size (Width × Height × Depth mm)	354 × 433 × 147	354 × 433 × 147	354 × 433 × 147	354 × 433 × 147	354 × 433 × 147
Ingress Protection Rating	IP65	IP65	IP65	IP65	IP65
Night Power Consumption (W)	<1	<1	<1	<1	<1
Topology	Transformerless				

*1: For CEI 0-21 Nominal Output Power GW3000D-NS is 2700, GW3600D-NS is 3350, GW4200D-NS is 3800, GW5000D-NS is 4540, GW6000D-NS is 5450.
 *: Please visit GoodWe website for the latest certificates.