

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 MPPT voltage



Fanless and noiseless



Small, light weight & easy to install



Export control



Flexible communication methods

Technical Data	GW3000D	GW3600D	GW4200D	GW5000D	GW6000D	GW3000T	GW3600T	GW4200T	GW5000T	GW6000T
	-NS	-NS	-NS	-NS	-NS	-DS	-DS	-DS	-DS	-DS
Input										
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
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
Number of MPP Trackers						2				
Number of Strings per MPPT						1				
Output										
Nominal Output Power (W) ¹¹²	3000	3680	4200	5000	6000	3000	3680	4200	5000	6000
Nominal Output Apparent Power (VA) ¹³	3000	3680	4200	5000	6000	3000	3680	4200	5000	6000
Max. AC Active Power (W) ⁵	3000	3680	4200	5000	6000	3000	3680	4200	5000	6000
Max. AC Apparent Power (VA) ⁵	3000	3680	4200	5000	6000	3000	3680	4200	5000	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
Power Factor	~1 (Adjustable from 0.8 leading to 0.8 lagging)									
Max. Total Harmonic Distortion						<3%				
Efficiency										
Max. Efficiency						97.8%				
European Efficiency						97.5%				
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						Optional				
DC Surge Protection				Type III					Type III (Type II Optional)	
AC Surge Protection						Type III				
AFCI	-	-	-	-	-	Optional				
Emergency Power Off						Optional				
Remote Shutdown						Optional				
General Data										
Operating Temperature Range (°C)						-25 ~ +60				
Relative Humidity						0 ~ 100%				
Max. Operating Altitude (m) ⁴						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	13.5
Dimension (W x H x D mm)						354 x 433 x 147				
Noise Emission (dB)	<25	<25	<25	<25	<50	<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.

*2: For Australia or New Zealand, Nominal Output Power (W) GW5000D-NS is 4999.

*3: For Australia or New Zealand, Nominal Output Apparent Power (VA) GW5000D-NS is 4999.

*4: For Australia, Max. Operating Altitude (m) is 3000.

*5: For Chile Max. AC Active Power (W) & Max. Output Apparent Power(VA): GW3000T-DS is 3000, GW3600T-DS is 3600, GW4200T-DS is 4200, GW5000T-DS is 5000, GW6000T-DS is 6000.

*: Please visit GoodWe website for the latest certificates.