

GOODWE

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



Fanless and Noiseless



Small, Light weight and Easy to install



Built-in Anti-reverse Function

Technical Data GW2900D-NS GW3000D-NS GW3600D-NS GW4200D-NS GW5000D-NS GW6000D-NS GW3000T-DS GW3600T-DS GW4200T-DS GW5000T-DS GW6000T-DS

Input												
Max. Input Voltage (V)	535	600	600	600	600	600	600	600	600	600	600	600
MPPT Operating Voltage Range (V)	80-435	80~550	80~550	80~550	80~550	80~550	80~550	80~550	80~550	80~550	80~550	80~550
Start-up Voltage (V)	80	80	80	80	80	80	80	80	80	80	80	80
Nominal Input Voltage (V)	230	360	360	360	360	360	360	360	360	360	360	360
Max. Input Current per MPPT (A)	12.5 / 12.5	11/11	11/11	11/11	11/11	11/11	13/13	13/13	13/13	13/13	13/13	13/13
Number of MPPTs	2	2	2	2	2	2	2	2	2	2	2	2
Number of Strings per MPPT	1	1	1	1	1	1	1	1	1	1	1	1
Output												
Nominal Output Power (W)	2900	3000 ²	3680 ²	4200 ²	5000 ^{2*3}	6000 ²	3000 ²	3680 ²	4200 ²	5000 ²	6000 ²	
Nominal Output Apparent Power (VA)	2900	3000	3680	4200	5000 ⁴	6000	3000	3680	4200	5000	6000	
Max. AC Apparent Power (VA)	2900	3000	3680	4200	5000	6000	3000	3680	4200	5000	6000	
Nominal AC Grid Frequency (Hz)	60	50/60	50/60	50/60	50/60	50/60	50/60	50/60	50/60	50/60	50/60	50/60
Max. Output Current (A)	22.9	13.6	16	19	22.8	27.3	13.6	16	19	22.8	27.3	
Power Factor	~1 (Adjustable from 0.8 leading to 0.8 lagging)											
Max. Total Harmonic Distortion	<3%	<3%	<3%	<3%	<3%	<3%	<3%	<3%	<3%	<3%	<3%	<3%
Efficiency												
Max. Efficiency	96.0%	97.8%	97.8%	97.8%	97.8%	97.8%	97.8%	97.8%	97.8%	97.8%	97.8%	97.8%
European Efficiency	95.6%	97.5%	97.5%	97.5%	97.5%	97.5%	97.5%	97.5%	97.5%	97.5%	97.5%	97.5%
Protection												
Residual Current Monitoring	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
DC Reverse Polarity Protection	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
Anti-islanding Protection	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
AC Overcurrent Protection	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
AC Short Circuit Protection	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
AC Overvoltage Protection	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated	Integrated
DC Surge Protection	Type III(Type II Optional)	Type III	Type III	Type III	Type III	Type III	Type III	Type III(Type II Optional)				
AC Surge Protection	Type III	Type III	Type III	Type III	Type III	Type III	Type III	Type III	Type III	Type III	Type III	Type III
General Data												
Operating Temperature Range (°C)	-25~60	-25~60	-25~60	-25~60	-25~60	-25~60	-25~60	-25~60	-25~60	-25~60	-25~60	-25~60
Relative Humidity	0~100%	0~100%	0~100%	0~100%	0~100%	0~100%	0~100%	0~100%	0~100%	0~100%	0~100%	0~100%
Max. Operating Altitude (m)	4000	4000	4000	4000	4000	4000	4000	4000	4000	4000	4000	4000
Cooling Method	Natural Convection						Natural Convection					
Display	LED/LCD/Wi-Fi+APP						LED/LCD/Wi-Fi+APP/Bluetooth+APP					
Communication	RS485 / Wi-Fi / LAN						RS485/Wi-Fi / 4G/2G /LAN					
Weight (kg)	13	13	13	13	13	13.5	13	13	13	13	13	13.5
Dimension WxHxD (mm)	354x433x147											
Topology	Non-isolated											
Self-consumption at Night (W)	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ingress Protection Rating	IP65	IP65	IP65	IP65	IP65	IP65	IP65	IP65	IP65	IP65	IP65	IP65

*1 : For Australia/New Zealand-Max Input Power(W)GW3000T-DS or GW3000D-NS is 4000,GW3600T-DS or GW3600D-NS is 4680,GW4200T-DS or GW4200D-NS is 5600,GW5000T-DS or GW5000D-NS is 6667
 *2 : 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.
 *3 : For Australia/New Zealand-Nominal Output Power (W) GW5000D-NS is 4999
 *4 : For Australia/New Zealand-Nominal Output Apparent Power (W) GW5000D-NS is 4999

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