GOODWE
YOUR SOLAR ENGINE

Bring The Sun Home

DNS Series

Dual-MPPT, Single-Phase

3.0kW **3.6kW** **4.2kW** **5.0kW**

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. The GoodWe DNS series is also extremely light - just 13kg, about 30% lighter than other inverters.

- Wide MPPT Range
- 33% DC Oversizing
- High Efficiency 97.8%
- Multi-monitoring Method
  WiFi , RS485, LAN

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Technical Data	GW3000D-NS	GW3600D-NS	GW4200D-NS	GW5000D-NS
PV String Input Data				
Max. DC Input Power (W)	3990	4894	5586	6650
Max. DC Input Voltage (V)	600	600	600	600
MPPT Range (V)	80~550	80~550	80~550	80~550
Start-up Voltage (V)	120	120	120	120
MPPT Range for Full Load (V)	150-550	180-550	210-550	250-550
Nominal DC Input Voltage (V)	360	360	360	360
Max. Input Current (A)	11/11	11/11	11/11	11/11
Max. Short Current (A)	13.8/13.8	13.8/13.8	13.8/13.8	13.8/13.8
No. of MPP Trackers	2	2	2	2
No. of Input Strings per Tracker	1	1	1	1
AC Output Data				
Nominal Output Power (W)	3000*1	3680*1	4200*1	5000*1
Max. Output Apparent Power (VA)	3000	3680	4200	5000
Nominal Output Voltage (V)	220/230	220/230	220/230	220/230
Nominal Output Frequency (Hz)	50/60	50/60	50/60	50/60
Max. Output Current (A)	13.6	16	19	22.8
Output Power Factor	~1 (Adjustable from 0.8 leading to 0.8 lagging)			
Output THDi (@Nominal Output)	<3%	<3%	<3%	<3%
Efficiency				
Max. Efficiency	97.8%	97.8%	97.8%	97.8%
Euro Efficiency	97.5%	97.5%	97.5%	97.5%
Protection				
Anti-islanding Protection	Integrated	Integrated	Integrated	Integrated
Input Reverse Polarity Protection	Integrated	Integrated	Integrated	Integrated
Insulation Resistor Detection	Integrated	Integrated	Integrated	Integrated
Residual Current Monitoring Unit	Integrated	Integrated	Integrated	Integrated
Output Over Current Protection	Integrated	Integrated	Integrated	Integrated
Output Short Protection	Integrated	Integrated	Integrated	Integrated
Output Over Voltage Protection	Integrated	Integrated	Integrated	Integrated
General Data				
Operating Temperature Range (°C)	-25~60	-25~60	-25~60	-25~60
Relative Humidity	0~100%	0~100%	0~100%	0~100%
Operating Altitude (m)	≤4000	≤4000	≤4000	≤4000
Cooling	Natural Convection	Natural Convection	Natural Convection	Natural Convection
Noise (dB)	<25	<25	<25	<25
User Interface	LCD & LED	LCD & LED	LCD & LED	LCD & LED
Communication	RS485 or WiFi or LAN	RS485 or WiFi or LAN	RS485 or WiFi or LAN	RS485 or WiFi or LAN
Weight (kg)	13	13	13	13
Size (Width*Height*Depth mm)	354*433*147	354*433*147	354*433*147	354*433*147
Protection Degree	IP65	IP65	IP65	IP65
Night Self Consumption (W)	<1	<1	<1	<1
Topology	Transformerless	Transformerless	Transformerless	Transformerless
Certifications & Standards				
Grid Regulation	VDE-AR-N 4105, VDE0126-1-1, EN50438(PL), EN50438(SW) AS4777.2, G83, IEC61727, IEC62116, CEI 0-21, RD 1699:2011, UNE 206006 IN: 2011 , UNE 206007-1 IN: 2013		VDE-AR-N 4105, VDE0126-1-1, EN50438(PL), EN50438(SW) AS4777.2, G59, IEC61727, IEC62116, CEI 0-21, RD 1699:2011 , UNE 206006 IN: 2011 , UNE 206007-1 IN: 2013	VDE-AR-N 4105, VDE0126-1-1 EN50438(PL), EN50438(SW) AS4777.2, G59, IEC61727, MEA, PEA, IEC62116, CEI 0-21, RD 1699:2011 , UNE 206006 IN: 2011 , UNE 206007-1 IN: 2013
Safety Regulation	IEC62109-1&2			
EMC	EN 61000-6-1, EN 61000-6-2, EN 61000-6-3, EN 61000-6-4, EN 61000-4-16, EN 61000-4-18, EN 61000-4-29			

*1: For CEI 0-21 Nominal Output Power GW3000D-NS is 2700 , GW3680D-NS is 3350 , GW4200D-NS is 3800 , GW5000D-NS is 4540 . For AS4777, Nominal Output Power GW5000D-NS is 4999.

Color Options

Note: The technical data above mentioned may be modified in order to reflect the continuous technical innovation and the improvements achieved by GoodWe's R & D team. GoodWe has the sole right to make such modification at any time without further notice. The GoodWe's customers have the right to request the latest version of the GoodWe products data sheets and all the commercial contracts that may be signed will be based on the most recent version of the data sheet at the moment of signing the contract.