



**GOODWE**  
your solar engine



## DNS Series

Dual-MPPT Single-Phase Grid-tied Inverter

3.0kW 3.6kW 4.2kW 5.0kW



IP 65



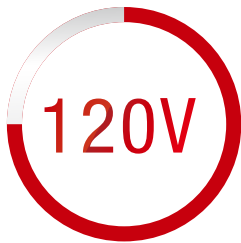
20% More  
Compact



Power Factor  
Adjustable



Remote Upgrade



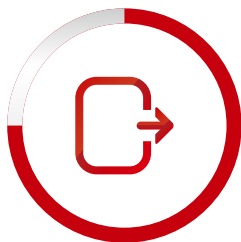
Low Start-up Voltage at 120V



Wi-Fi/GPRS Monitoring



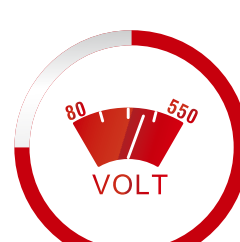
30% Lighter



Export Control



Built-in Anti-reverse Function



Wide MPPT Range

Scan for details



## Technical Data

	GW3000D-NS	GW3600D-NS	GW4200D-NS	GW5KD-NS	GW5000D-NS
<b>DC Input Data</b>					
Max. allowed PV Power [W]	3900	4680	5460	6500	6500
Nominal DC Power [W]	3300	3960	4600	5500	5500
Max. DC voltage [V]	580	580	580	580	580
MPPT voltage range [V]	80~550	80~550	80~550	80~550	80~550
Starting voltage [V]	120	120	120	120	120
Max. DC current [A]	11/11	11/11	11/11	11/11	11/11
No. of DC connectors	2	2	2	2	2
No. of MPPTs	2 (can parallel)			2 (can parallel)	
DC connector	MC4/ Phoenix/ Amphenol			MC4/ Phoenix/ Amphenol	
<b>AC Output Data</b>					
Normal AC power [W]	3000	3680	4200	4600	5000*
Max. AC power [W]	3000	3680	4200	4950	5000*
Max. AC current [A]	13.6	16	19	21.7	22.8**
Normal AC output	50/60Hz; 230Vac			50/60Hz; 230Vac	
AC output range	45~55Hz/55~65Hz; 180~270Vac			45~55Hz/55~65Hz; 180~270Vac	
THDi	<3%			<3%	
Power factor	0.8 leading~0.8 lagging			0.8 leading~0.8 lagging	
Grid connection	Single phase			Single phase	
<b>Efficiency</b>					
Max. efficiency	97.8%	97.8%	97.8%	97.8%	97.8%
Euro efficiency	>97.5%	>97.5%	>97.5%	>97.5%	>97.5%
MPPT adaptation efficiency	99.9%	99.9%	99.9%	99.9%	99.9%
<b>Protection</b>					
Residual current monitoring unit	Integrated			Integrated	
Anti-islanding protection	Integrated			Integrated	
DC switch	Integrated (optional)			Integrated (optional)	
AC over current protection	Integrated			Integrated	
Insulation monitoring	Integrated			Integrated	
<b>Certifications &amp; Standards</b>					
Grid regulation	VDE-AR-N 4105, AS4777.2&.3, RD1699, IEC62109-2/1, VDE0126-1-1+A1, EN50438 G83/G59			VDE-AR-N 4105, AS4777.2&.3, RD1699, IEC62109-2/1, VDE0126-1-1+A1, EN50438 G83/G59	
Safety	IEC62109-1&-2, AS3100				
EMC	IEC/EN 61000-6-1, IEC/EN 61000-6-2, IEC/EN 61000-6-3, IEC/EN 61000-6-4, IEC/EN 61000-3-11, IEC/EN 61000-3-12				
<b>General Data</b>					
Dimensions (WxHxD) [mm]	347*432*145			347*432*145	
Weight [kg]	14			14	
Mounting	Wall bracket			Wall bracket	
Ambient temperature range	-25~60°C (>45°C derating)			-25~60°C (>45°C derating)	
Relative humidity	0~95%			0~95%	
Max. operating altitude	4000m(> 3000m derating)			4000m(> 3000m derating)	
Protection degree	IP65			IP65	
Topology	Transformerless			Transformerless	
Night power consumption [W]	<1			<1	
Cooling	Natural convection			Natural convection	
Noise emission [dB]	<25			<25	
Display	LCD			LCD	
Communication	Wi-Fi; RS485 or Ethernet			Wi-Fi; RS485 or Ethernet	
Standard warranty [years]	5/10/15/20/25 (optional)			5/10/15/20/25 (optional)	

\*4600 VDE-AR-N4105; 4950 fro Australian; 5000 for other country

\*\*22.8 for other country; 21.7 for Australia



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