



DNS Series (Dual-MPPT, Single-Phase)

GoodWe DNS series inverter adopts cutting-edge technology in photovoltaic fields, designed under modern industrial concept. Inheriting all the excellent traits from GoodWe SS and DS series, the DNS series is much smarter in size and weight. Excellent cooling design, comprehensive software and hardware technology is guaranteed to maximize the life-span of these inverters.

- Up to 10 safety measurements
- DC switch
- IP65 dust-proof and water-proof
- 45°C full-load output
- Built-in anti-reverse function
- 30% lighter than similar products
- 20% Volume optimization
- Wide range of MPPT voltage
- Multiple monitoring and communication
- Fanless low-noise design

Technical Data

	GW3000D-NS	GW3600D-NS	GW4200D-NS	GW5KD-NS	GW5000D-NS
DC Input Data					
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		
AC Output Data					
Norminal 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**
Norminal 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		
Efficiency					
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%
Protection					
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		
Certifications & Standards					
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				
General Data					
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 fro Australian

Color Options