



GOODWE SINGLE-PHASE DOMESTIC INVERTERS

GW3000D-NS & GW5000D-NS

The GoodWe DNS series inverters are lightweight and compact, which makes them ideal for mid-sized residential installations.

Dual MPPT trackers allow for increased design flexibility, and with an IP65 protection rating, the DNS series is dust-proof and waterproof.

It is compatible with both indoor and outdoor installations.



BRING THE
SUNSHINE HOME



PERFECT FOR
RESIDENTIAL
INSTALLATIONS



HOW YOU BENEFIT



HIGH EFFICIENCY

With inverter efficiency of up to 97.8%, generating more power from your PV system.



WIDE MPPT RANGE

Wide MPPT range provides greater design options for your household system.



SAFE OPERATION

Robust design is suitable for outdoor and indoor installations with an IP rating of IP65.



COMPACT DESIGN

Lightweight, small and robust. Natural convection cooling and quiet operation.

Technical Data

INVERTER TECHNICAL DATA		GW3000D-NS	GW5000D-NS
Output (AC)			
Nominal output power		3000 W	4999 W
Maximum output apparent power		3000 VA	4999 VA
AC output voltage (nominal)		220 / 230 V	
Output power factor		~1 (Adjustable from 0.8 leading to 0.8 lagging)	
AC frequency		50 / 60 Hz	
Maximum output current		13.6 A	21.7 A
Output THDi (@nominal output)		< 3%	
Input (DC)			
Maximum DC input power		4000 W	6650 W
Maximum input voltage		600 V	
MPPT range		80-550 V	
Start-up voltage		120 V	
Nominal DC input voltage		360 V	
Maximum input current		11 A / 11 A	
Maximum short circuit current		13.8 A / 13.8 A	
No. of MPP trackers		2	
No. of input strings per tracker		1	
Efficiency			
Maximum efficiency		97.8%	
Euro efficiency		97.5%	
Protection			
Anti-islanding protection		Integrated	
Input reverse polarity protection		Integrated	
Insulation resistor detection		Integrated	
Residual current monitoring unit		Integrated	
Output over current protection		Integrated	
Output short protection		Integrated	
Output over voltage protection		Integrated	
DC isolator		Integrated	
General Data			
Operating temperature range		-25~60°C	
Relative humidity		0~100%	
Operating altitude		≤ 4000 m	
Cooling		Natural convection	
User interface		LCD & LED	
Communication		RS485 or Wi-Fi or LAN	
Weight		13 kg	
Size (W x H x D)		354 x 433 x 147 mm	
Protection degree		IP65	
Night self-consumption		< 1 W	
Topology		Transformerless	
Manufacturer's warranty		10 Years [†]	
Solahart Warranty		10 Years*	
Certifications & Standards			
Grid regulation		AS4777.2, IEC61727, IEC62116	
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	

[†] Inverter must be internet connected to GoodWe SEMS portal to receive 10 years warranty. 5 years warranty for unconnected installations. For full details see the manufacturer's warranty statement.

* Inverter must be internet connected to GoodWe SEMS portal to receive 10 years warranty. 5 years warranty for unconnected installations. For full details see Solahart Owner's Guide & Installation Instructions.

Specifications and designs included in this data sheet are subject to change without notice.

Solahart Australia 1300 769 475 | www.solahart.com.au

Reorder code: SHDS/INVGW3&5_DNS

IH0113_GW3 & GW5 DNS_Single Phase GoodWe Inverters_Mar 2021