



**GOODWE**  
your solar engine



**Designed for Australia:**

- ★ Earth Fault Alarm
- ★ Zero Export
- ★ Power Factor adjustable
- ★ Remote Upgrade

D-NS Series



Dual-MPPT Single-Phase

3.0kW/3.6kW/4.2kW/5.0kW

- Lowest start-up voltage at **120V**
  - Widest voltage range in class of **80 to 550V**
  - **30%** lighter than similar products
  - **20%** Volume optimization
  - Built-in **anti-reverse** function
- |                                                       |                                                                |
|-------------------------------------------------------|----------------------------------------------------------------|
| <input type="checkbox"/> IP65 protection class        | <input type="checkbox"/> Max efficiency of 97.8 %              |
| <input type="checkbox"/> Integrated DC switch & WiFi  | <input type="checkbox"/> Multiple monitoring and communication |
| <input type="checkbox"/> Up to 10 safety measurements | <input type="checkbox"/> 45°C full-load output                 |

Integrated WiFi Solution  
multiple user access and mobile Apps



**Good Quality Good Value Good Service GoodWe**

## Technical Data

### GW3000D-NS

### GW3600D-NS

### GW4200D-NS

### GW5000D-NS

<b>DC Input Data</b>				
Max. allowed PV Power [W]	3900	4680	5460	6500
Nominal DC Power [W]	3300	3960	4600	5500
Max. DC voltage [V]	580	580	580	580
MPPT voltage range [V]	80~550	125~550	125~550	125~550
Starting voltage [V]	120	120	120	120
Max. DC current [A]	11/11	11/11	11/11	11/11
No. of DC connectors	2	2	2	2
No. of MPPTs	2 (can parallel)	2 (can parallel)	2 (can parallel)	2 (can parallel)
DC connector	MC4/ Phoenix/ Amphenol	MC4/ Phoenix/ Amphenol	MC4/ Phoenix/ Amphenol	MC4/ Phoenix/ Amphenol
<b>AC Output Data</b>				
Normal AC power [W]	3000	3680	4200	4950
Max. AC power [W]	3000	3680	4200	4950
Max. AC current [A]	13.6	16	19	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%
Euro efficiency	>97.5%	>97.5%	>97.5%	>97.5%
MPPT adaptation efficiency	99.9%	99.9%	99.9%	99.9%
<b>Protection</b>				
Residual current monitoring unit	Integrated	Integrated	Integrated	Integrated
Anti-islanding protection	Integrated	Integrated	Integrated	Integrated
DC switch	Integrated (optional)	Integrated (optional)	Integrated (optional)	Integrated (optional)
AC over current protection	Integrated	Integrated	Integrated	Integrated
Insulation monitoring	Integrated	Integrated	Integrated	Integrated
<b>Certifications &amp; Standards</b>				
Grid regulation	VDE-AR-N 4105, EN50438, VDE0126-1-1, AS4777.2&.3, G83/G59	VDE-AR-N 4105, G83/G59, VDE0126-1-1, EN50438, AS4777.2&.3, MEA,PEA	VDE-AR-N 4105, EN50438, VDE0126-1-1, AS4777.2&.3, G83/G59	VDE-AR-N 4105, EN50438, VDE0126-1-1, G83/G59, AS4777.2&.3, MEA, PEA
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	347*432*145	347*432*145
Weight [kg]	14	14	14	14
Mounting	Wall bracket	Wall bracket	Wall bracket	Wall bracket
Ambient temperature range	-25~60°C (>45°C derating)	-25~60°C (>45°C derating)	-25~60°C (>45°C derating)	-25~60°C (>45°C derating)
Relative humidity	0~95%	0~95%	0~95%	0~95%
Max. operating altitude	4000m(> 3000m derating)	4000m(> 3000m derating)	4000m(> 3000m derating)	4000m(> 3000m derating)
Protection degree	IP65	IP65	IP65	IP65
Topology	Transformerless	Transformerless	Transformerless	Transformerless
Night power consumption [W]	<1	<1	<1	<1
Cooling	Natural convection	Natural convection	Natural convection	Natural convection
Noise emission [dB]	<25	<25	<25	<25
Display	LCD	LCD	LCD	LCD
Communication	USB2.0; RS485 or WiFi	USB2.0; RS485 or WiFi	USB2.0; RS485 or WiFi	USB2.0; RS485 or WiFi
Standard warranty [years]	5/10/15/20/25 (optional)	5/10/15/20/25 (optional)	5/10/15/20/25 (optional)	5/10/15/20/25 (optional)

\*Note : 4600W for VDE-AR-N4105



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**Smart DT Series**  
Dual-MPPT, Three-Phase  
4kW/5kW/6kW/8kW/9kW/10kW

- Maximum Efficiency up to 98.3%
- European Efficiency up to 98%
- MPPT Efficiency up to 99.9%
- DC switch
- IP65 dust-proof and water-proof rating
- 45°C full-load output
- Super large 5-inch LCD
- 30% lighter than similar products
- Multiple monitoring and communication methods

Integrated WiFi Solution  
*multiple user access and mobile Apps*



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## Technical Data

**GW4000-DT**
**GW5000-DT**
**GW6000-DT**
**GW8000-DT\***
**GW9000-DT\***
**GW10KN-DT\***

### DC Input Data

Max. allowed PV Power [W]	5200	6500	7800	9600	10800	12000
Nominal DC Power [W]	4200	5200	6200	8300	9400	10500
Max. DC voltage [V]	1000	1000	1000	1000	1000	1000
MPPT voltage range [V]	200~800	200~800	200~800	200~850	200~850	200~850
Starting voltage [V]	180	180	180	180	180	180
Max. DC current [A]	11/11	11/11	11/11	11/11	11/11	11/11
No. of DC connectors	2	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

Normal AC power [W]	4000	5000	6000	8000	9000	10000
Max. AC power [W]	4000	5000	6000	8000	9000	10000
Max. AC current [A]	7	8.5	10	12.1	13.6	15.2
Normal AC output	50/60Hz; 400Vac			50/60Hz; 400Vac		
AC output range	45~55Hz/55~65Hz; 310~480Vac			45~55Hz/55~65Hz; 310~480Vac		
THDi	<1.5%			<2%		
Power factor	0.8 leading~0.8 lagging			0.80leading...0.80lagging		
Grid connection	3W/N/PE			3W/N/PE		

### Efficiency

Max. efficiency	98%	98%	98%	98.3%	98.3%	98.3%
Euro efficiency	>97.5%	>97.5%	>97.5%	>98.0%	>98.0%	>98.0%
MPPT adaptation efficiency	99.9%	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, ERDF-NOI-RES_13E; VDE0126-1-1, EN50438 ,G83/2	VDE-AR-N 4105, AS4777.2, ERDF-NOI-RES_13E; VDE0126-1-1, EN50438 ,G83/2
Safety	IEC62109-1&-2	IEC62109-1&-2
EMC	EN 61000-6-1, EN 61000-6-2, EN 61000-6-3, EN 61000-6-4, EN 61000-3-2, EN 61000-3-3	EN 61000-6-1, EN 61000-6-2, EN 61000-6-3, EN 61000-6-4, EN 61000-3-2, EN 61000-3-3

### General Data

Dimensions (WxHxD) [mm]	516*474*192	516*474*192
Weight [kg]	24	24
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]	<30	<30
Display	5.0" LCD	5.0" LCD
Communication	USB2.0; RS485 or WiFi	USB2.0; RS485 or WiFi
Standard warranty [years]	5/10/15/20/25 (optional)	5/10/15/20/25 (optional)

\*Available in Q2



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