



NS Series (Single-MPPT, Single Phase)

GoodWe NS series is ideally suited for new-build housing projects or small domestic applications, providing you with a range from 1 to 3 kW models for installations as small as 3 PV modules. The NS series compares favorably to other inverters in the 1-3kW power class due to its small footprint and light weight.

In addition, GoodWe NS series boasts both the lowest startup voltage of 80V and the widest voltage range from 80 to 450V. A robust, elegantly designed IP65 rated enclosure ensures the inverter is weatherproof, allowing outdoor installation, while contributing to low maintenance needs and enhanced lifespan.

- Lowest startup voltage at 80V
- Small, lightweight and easy to install
- Built-in anti-reverse function
- Wide range of MPPT voltage
- Fanless and quiet

Technical Data

	GW1000-NS	GW1500-NS	GW2000-NS	GW2500-NS	GW3000-NS
PV String Input Data					
Max. DC Input Power (W)	1300	1950	2600	3250	3900
Max. DC Input Voltage (V)	500	500	500	500	500
MPPT Range (V)	80~450	80~450	80~450	80~450	80~450
Start-up Voltage (V)	80	80	80	80	80
MPPT Range for Full Load (V)	120~450	180~450	230~450	180~450	215~450
Nominal DC Input Voltage (V)	360	360	360	360	360
Max. Input Current (A)	10	10	10	18	18
Max. Short Current (A)	12.5	12.5	12.5	22.5	22.5
No. of MPP Trackers	1	1	1	1	1
No. of Input Strings per Tracker	1	1	1	1	1
AC Output Data					
Nominal Output Power (W)	1000	1500	2000	2500	3000
Max. Output Apparent Power (VA)	1000	1500	2000	2500	3000
Nominal Output Voltage (V)	220/230	220/230	220/230	220/230	220/230
Nominal Output Frequency (Hz)	50/60	50/60	50/60	50/60	50/60
Max. Output Current (A)	5	7.5	10	12.5	13.5
Output Power Factor	~1 (Adjustable from 0.8 leading to 0.8 lagging)				
Output THDi (@Nominal Output)	<3%	<3%	<3%	<3%	<3%
Efficiency					
Max. Efficiency	96.5%	97.0%	97.0%	97.5%	97.5%
Europe Efficiency	96.0%	96.0%	96.0%	97.0%	97.0%
MPPT Efficiency	99.9%	99.9%	99.9%	99.9%	99.9%
Protection					
Anti-islanding Protection	Integrated	Integrated	Integrated	Integrated	Integrated
Input Reverse Polarity Protection	Integrated	Integrated	Integrated	Integrated	Integrated
Insulation Resistor Detection	Integrated	Integrated	Integrated	Integrated	Integrated
Residual Current Monitoring Unit	Integrated	Integrated	Integrated	Integrated	Integrated
Output Over Current Protection	Integrated	Integrated	Integrated	Integrated	Integrated
Output Short Protection	Integrated	Integrated	Integrated	Integrated	Integrated
Output Over Voltage Protection	Integrated	Integrated	Integrated	Integrated	Integrated
General Data					
Operating Temperature Range (°C)	-25~60	-25~60	-25~60	-25~60	-25~60
Relative Humidity	0~100%	0~100%	0~100%	0~100%	0~100%
Operating Altitude (m)	≤4000	≤4000	≤4000	≤4000	≤4000
Cooling	Natural Convection	Natural Convection	Natural Convection	Natural Convection	Natural Convection
Noise (dB)	<25	<25	<25	<25	<25
User Interface	LCD & LED	LCD & LED	LCD & LED	LCD & LED	LCD & LED
Communication	RS485 or WiFi	RS485 or WiFi	RS485 or WiFi	RS485 or WiFi	RS485 or WiFi
Weight (kg)	7.5	7.5	7.5	8.5	8.5
Size (Width*Height*Depth mm)	344*274.5*128	344*274.5*128	344*274.5*128	344*274.5*128	344*274.5*128
Protection Degree	IP65	IP65	IP65	IP65	IP65
Night Self Consumption (W)	<1	<1	<1	<1	<1
Topology	Transformerless	Transformerless	Transformerless	Transformerless	Transformerless
Certifications & Standards					
Grid Regulation	VDE0126-1-1, AS4777.2 EN50438(PL), G83 ERDF-NOI-RES_13E, IEC61727, IEC62116	VDE0126-1-1, AS4777.2 EN50438(PL), G83 ERDF-NOI-RES_13E, IEC61727, IEC62116	VDE0126-1-1, AS4777.2 EN50438(PL), G83 ERDF-NOI-RES_13E, IEC61727, IEC62116	VDE0126-1-1, AS4777.2 EN50438(PL), G83 ERDF-NOI-RES_13E, IEC61727, IEC62116	VDE0126-1-1, AS4777.2 EN50438(PL), G83 ERDF-NOI-RES_13E, IEC61727, IEC62116
Safety Regulation	IEC62109-1&2	IEC62109-1&2	IEC62109-1&2	IEC62109-1&2	IEC62109-1&2
EMC	EN 61000-6-1, EN 61000-6-2, EN 61000-6-3, EN 61000-6-4				

Color Options