

Enjoy The Silence

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

Wide range of
MPPT voltage

Small, lightweight
and easy to install

Built-in anti-reverse
function

Fanless and quiet

NS Series

Single-MPPT, Single-Phase



Technical Data

Model	Max. DC Input Power (W)	MPPT Range for Full Load (V)	Max. Input Current (A)	Max. Short Current (A)	Nominal Output Power (W)	Max. Output Apparent Power (VA)	Max. Output Current (A)	Max. Efficiency	Euro Efficiency	Weight (kg)
GW1000-NS	1300	120~450	10	12.5	1000	1000	5	96.5%	96.0%	7.5
GW1500-NS	1950	180-450	10	12.5	1500	1500	7.5	97.0%	96.0%	7.5
GW2000-NS	2600	230-450	10	12.5	2000	2000	10	97.0%	96.0%	7.5
GW2500-NS	3250	180-450	18	22.5	2500	2500	12.5	97.5%	97.0%	8.5
GW3000-NS	3900	215-450	18	22.5	3000	3000	13.5	97.5%	97.0%	8.5

PV String Input Data

Max. DC Input Voltage (V)	500
MPPT Range (V)	80~450
Start-up Voltage (V)	80
Nominal DC Input Voltage (V)	360
No. of MPP Trackers	1
No. of Input Strings per Tracker	1

AC Output Data

Nominal Output Voltage (V)	220/230
Nominal Output Frequency (Hz)	50/60
Output Power Factor	~1 (Adjustable from 0.8 leading to 0.8 lagging)
Output THDi (@Nominal Output)	<3%

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

General Data

Operating Temperature Range (°C)	-25~60
Relative Humidity	0~100%
Operating Altitude (m)	≤4000
Cooling	Natural Convection
Noise (dB)	<25
User Interface	LCD & LED
Communication	RS485 or WiFi
Size (Width*Height*Depth mm)	344*274.5*128
Protection Degree	IP65
Night Self Consumption (W)	<1
Topology	Transformerless

Certifications & Standards

Grid Regulation	VDE0126-1-1, AS4777.2, EN50438(PL), G83, ERDF-NOI-RES_13E, IEC61727, IEC62116
Safety Regulation	IEC62109-1&2
EMC	EN 61000-6-1, EN 61000-6-2, EN 61000-6-3, EN 61000-6-4

  Color Options