

# NS Series

Single-MPPT, Single-Phase



Technical Data	GW1000-NS	GW1500-NS	GW2000-NS	GW2500-NS	GW3000-NS
<b>PV String Input Data</b>					
Max. DC Input Power (W)	1330	1995	2660	3325	3990
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
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
<b>AC Output Data</b>					
Nominal Output Power (W)	1000*1	1500*1	2000*1	2500*1	3000*1
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%
<b>Efficiency</b>					
Max. Efficiency	96.5%	97.0%	97.0%	97.5%	97.5%
European Efficiency	96.0%	96.0%	96.0%	97.0%	97.0%
<b>Protection</b>					
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
<b>General Data</b>					
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				
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				
<b>Certifications &amp; Standards</b>					
Grid Regulation	VDE0126-1-1, AS4777.2, EN50438(PL), G83, ERDF-NOI-RES_13E, IEC61727, IEC62116, CEI 0-21, RD 1699:2011, UNE 206006 IN: 2011, UNE 206007-1 IN: 2013				
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				

\*1: For CEI 0-21 Nominal Output Power GW1000-NS is 900, GW1500-NS is 1350, GW2000-NS is 1800, GW2500-NS is 2250, GW3000-NS is 2700.

  Color Options