



NS Series



Single Phase Single MPPT

1.0kW/1.5kW/2.0kW/2.5kW/3.0kW

- Lowest start-up voltage at **80V**
 - Widest voltage range in class of **80 to 400V**
 - **30%** lighter than similar products
 - **20%** Volume optimization
 - **Innovatory** WiFi solution
- | | |
|---|--|
| <input type="checkbox"/> IP65 protection class | <input type="checkbox"/> Max efficiency of 97 % |
| <input type="checkbox"/> Integrated DC switch(optional) | <input type="checkbox"/> MPPT Efficiency up to 99.5% |
| <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



Technical Data**GW1000-NS****GW1500-NS****GW2000-NS****GW2500-NS****GW3000-NS****DC Input Data**

Max. DC power(W)	1200	1800	2300	2700	3200
Max. DC voltage (V)	450	450	450	500	500
MPPT voltage range (V)	80~400	80~400	80~400	80~450	80~450
Starting voltage (V)	80	80	80	80	80
Max. DC current (A)	10	10	10	18	18
No. of DC connectors	1	1	1	1/2(optional)	1/2(optional)
No. of MPPTs	1	1	1	1	1
DC connector	AMPHENOL/MC4/SUNCLIX			AMPHENOL/MC4/SUNCLIX	

AC Output Data

Norminal AC power(W)	1000	1500	2000	2500	3000
Max. AC power(W)	1000	1500	2000	2500	3000
Max. AC current(A)	5	7.5	10	12.5	13.5
Norminal AC output	50/60Hz; 230Vac				
AC output range	45~55Hz/55~65Hz; 180~270Vac				
THDi	<3%				
Power factor	0.9 leading~0.9 lagging				
Grid connection	Single phase				

Efficiency

Max. efficiency	96.5%	97.0%	97.0%	97.5%	97.5%
Euro efficiency	96.0%	96.0%	96.0%	97.0%	97.0%
MPPT adaptation efficiency	99.9%	99.9%	99.9%	99.9%	99.9%

Protection

Residual current monitoring unit	Integrated
Anti-islanding protection	Integrated
DC switch	Integrated (optional)
AC over current protection	Integrated
Insulation monitoring	Integrated

Certifications&Standards

Grid regulation	G83/2, AS4777.2&.3, VDE0126-1-1, EN50438, ERDF-NOI-RES_13E,
Safety	According to IEC62109-1&-2, AS3100
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

General Data

Dimensions (WxHxD)	344*274.5*128mm	
Weight (kg)	7.5	8.5
Mounting	Wall bracket	
Ambient temperature range	-25~60°C(>45°C derating)	
Relative humidity	0~95%	
Max. operating altitude	4000m (>3000m derating)	
Protection degree	IP65	
Topology	Transformerless	
Night power consumption(W)	<1	
Cooling	Nature convection	
Noise emission(dB)	<25	
Display	LCD	
Communication	USB2.0; WiFi/RS485 (optional)	
Standard warranty(years)	5/10/15/20/25(optional)	