



**NS Series**



**Single Phase Single MPPT**

### Best Choice for New-Build Projects

- Lowest start-up voltage at **80V**
  - Perfect for **0.75kW / 3-panel** system
  - Widest voltage range in class of **80 to 400V**
  - Standard Warranty for **10** years
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| <ul style="list-style-type: none"> <li><input type="checkbox"/> IP65 protection class</li> <li><input type="checkbox"/> Integrated DC switch(optional)</li> <li><input type="checkbox"/> Up to 10 safety measurements</li> </ul> | <ul style="list-style-type: none"> <li><input type="checkbox"/> Max efficiency of 97 %</li> <li><input type="checkbox"/> MPPT Efficiency over 99.5%</li> <li><input type="checkbox"/> 45°C full-load output</li> </ul> |
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**Integrated WiFi Solution**  
*multiple user access and mobile Apps*



Technical Data	GW1000-NS	GW1500-NS	GW2000-NS
<b>DC Input Data</b>			
Max. DC power(W)	1200	1800	2300
Max. DC voltage (V)		450	
MPPT voltage range (V)		80~400	
Starting voltage (V)		80	
Max. DC current (A)		10	
No. of DC connectors		1	
No. of MPPTs		1	
DC connector		AMPHENOL/MC	
<b>AC Output Data</b>			
Norminal AC power(W)	1000	1500	2000
Max. AC power(W)	1000	1500	2000
Max. AC current(A)	5	7.5	10
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	
<b>Efficiency</b>			
Max. efficiency	96.5%	97.0%	97.0%
Euro efficiency	96.0%	96.0%	96.0%
MPPT adaptation efficiency		>99.5%	
<b>Protection</b>			
Residual current monitoring unit		Integrated	
Anti-islanding protection		Integrated	
DC switch		Integrated (optional)	
AC over current protection		Integrated	
Insulation monitoring		Integrated	
<b>Certifications&amp;Standards</b>			
Grid regulation		G83/2, IEC62109-2, AS4777.2&.3, VDE0126-1-1+A1	
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	
<b>General Data</b>			
Dimensions (WxHxD)		338*272*128 mm	
Weight (kg)		8	
Mounting		Wall bracket	
Ambient temperature range		-25~60°C(>45°C derating)	
Relative humidity		0~95%	
Max. operating altitude		2000m	
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)		10/15/20/25( optional)	