



**GOODWE**  
your solar engine

## NS Series

Single-Phase Grid-tied Inverter

1.5kW 2.0kW 2.5kW 3.0kW



IP 65



20% More  
Compact



Power Factor  
Adjustable



Remote Upgrade



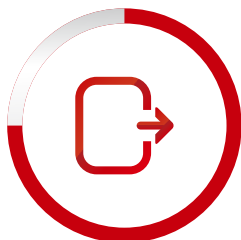
Low Start-up Voltage at 80V



Wi-Fi/GPRS Monitoring



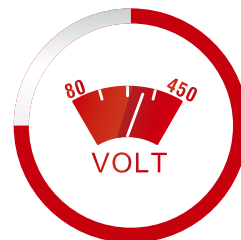
30% Lighter



Export Control



Suitable for 3-Panel System



Wide MPPT Range

Scan for details



## Technical Data

### GW1500-NS

### GW2000-NS

### GW2500-NS

|                                       | GW1500-NS  | GW2000-NS                  | GW2500-NS                  |
|---------------------------------------|--|----------------------------|----------------------------|
| <b>DC Input Data</b>                  |  |                            |                            |
| Max. recommended PV Power [W]         | 1950   | 2600                       | 3250                       |
| Nominal DC Power [W]                  | 1800   | 2300                       | 2700                       |
| Max. DC voltage [V]                   | 500  | 500                        | 500                        |
| MPPT voltage range [V]                | 80~450   | 80~450                     | 80~450                     |
| Starting voltage [V]                  | 80   | 80                         | 80                         |
| Max. DC current [A]                   | 10   | 10                         | 18                         |
| No. of DC connectors                  | 1  | 1                          | 1                          |
| No. of MPPTs                          | 1  | 1                          | 1                          |
| DC connector                          | MC4/ Phoenix/ Amphenol   |                            |                            |
| <b>AC Output Data</b>                 |  |                            |                            |
| Normal AC power [W]                   | 1500   | 2000                       | 2500                       |
| Max. AC power [W]                     | 1500   | 2000                       | 2500                       |
| Max. AC current [A]                   | 7.5  | 10                         | 12.5                       |
| Normal AC output                      | 50/60Hz; 230Vac  |                            |                            |
| AC output range                       | 45~55Hz/55~65Hz; 180~270Vac  |                            |                            |
| THDi                                  | <3%  |                            |                            |
| Power factor                          | 0.8 leading~0.8 lagging  |                            |                            |
| Grid connection                       | Single phase   | Single phase               | Single phase               |
| <b>Efficiency</b>                     |  |                            |                            |
| Max. efficiency                       | 97.0%  | 97.0%                      | 97.5%                      |
| Euro efficiency                       | >96.0%   | >96.0%                     | >97.0%                     |
| MPPT adaptation efficiency            | 99.9%  | 99.9%                      | 99.9%                      |
| <b>Protection</b>                     |  |                            |                            |
| Residual current monitoring unit      | Integrated   | Integrated                 | Integrated                 |
| Anti-islanding protection             | Integrated   | Integrated                 | Integrated                 |
| DC switch                             | Integrated (optional)  | Integrated (optional)      | Integrated (optional)      |
| AC over current protection            | Integrated   | Integrated                 | Integrated                 |
| Insulation monitoring                 | Integrated   | Integrated                 | Integrated                 |
| <b>Certifications &amp; Standards</b> |  |                            |                            |
| Grid regulation                       | G83/2, VDE0126-1-1, AS4777.2&3, 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 |                            |                            |
| <b>General Data</b>                   |  |                            |                            |
| Dimensions (WxHxD) [mm]               | 344*274.5*128  | 344*274.5*128              | 344*274.5*128              |
| Weight [kg]                           | 7.5  | 7.5                        | 7.5                        |
| Mounting                              | Wall bracket   | Wall bracket               | Wall bracket               |
| Ambient temperature range             | -25~60°C (> 45°C derating)   | -25~60°C (> 45°C derating) | -25~60°C (> 45°C derating) |
| Relative humidity                     | 0~95%  | 0~95%                      | 0~95%                      |
| Max. operating altitude               | 4000m(> 3000m derating)  | 4000m(> 3000m derating)    | 4000m(> 3000m derating)    |
| Protection degree                     | IP65   | IP65                       | IP65                       |
| Topology                              | Transformerless  | Transformerless            | Transformerless            |
| Night power consumption [W]           | <1   | <1                         | <1                         |
| Cooling                               | Natural convection   | Natural convection         | Natural convection         |
| Noise emission [dB]                   | <25  | <25                        | <25                        |
| Display                               | LCD  | LCD                        | LCD                        |
| Communication                         | USB; WiFi or RS485   | USB; WiFi or RS485         | USB; WiFi or RS485         |
| Standard warranty [years]             | 5/10/15/20/25 (optional)   | 5/10/15/20/25 (optional)   | 5/10/15/20/25 (optional)   |



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