



GOODWE
your solar engine



More compact & Much lighter

- 💡 Dimensions: 344*274.5*128 mm
- 💡 Weight: 8kg

Wider working voltage range & Quicker start to work

- 💡 Voltage range: 80-500V
- 💡 Starting voltage: 80V

Better Monitoring System with easier to operate

- 💡 Innovatory WiFi solution
- 💡 User-friendly interface

NS Series

Single-MPPT, Single-Phase
1.0kW/1.5kW/2.0kW/2.5kW/3.0kW

Maximum Efficiency up to 97.5%
European Efficiency up to 97.0%
MPPT Efficiency up to 99.9%
Fanless Design

Lower noise emission
IP65 protection standard
Integrated WiFi monitoring solution
Integrated DC switch

Standard 10 -year Warranty

Integrated WiFi Solution

Online monitoring system and mobile Apps



WHERE THE SUN SHINES, THERE IS GOODWE!

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 | 1 |
| No. of MPPTs | 1 | 1 | 1 | 1 | 1 |
| DC connector | MC4/AMPHENOL | | | MC4/AMPHENOL | |

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% | | | | |

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, VDE0126-1-1, AS4777.2&3, EN50438, ERDF-NOI-RES_13E; | 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 | |

General Data

| | | |
|----------------------------|--------------------------|-----|
| Dimensions (WxHxD) | 344*274 5*128 mm | |
| 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 | 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 | |
| Standard warranty(years) | 10/15/20/25(optional) | |