

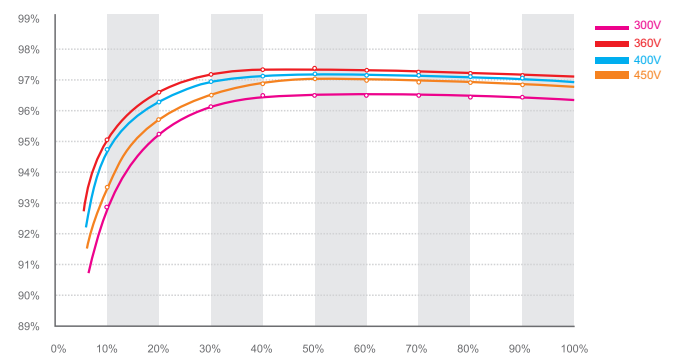
Growatt 1000S / 1500S / 2000S



Leading - edge Technology

- ▶ Maximum efficiency of 97% and wide input voltage range
- ▶ Internal DC switch
- ▶ Transformerless GT topology
- ▶ Compact design
- ▶ Ethernet / RF technology / Wi-Fi
- ▶ Sound control
- ▶ Easy installation
- ▶ Comprehensive Growatt warranty program

Growatt 1500S efficiency



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| Datasheet | Growatt 1000S | Growatt 1500S | Growatt 2000S |
|---|--|--------------------------------|--------------------------------|
| Input data (DC) | | | |
| Max. recommended PV power (for module STC) | 1300W | 1900W | 2300W |
| Max. DC voltage | 450V | 450V | 450V |
| Start voltage | 80V | 80V | 80V |
| PV voltage range | 70V-450V | 70V-450V | 70V-450V |
| MPP work voltage range/ nominal voltage | 70V-450V/180V | 70V-450V/250V | 70V-450V/250V |
| Full load dc voltage range | 110V-400V | 175V-400V | 200V-400V |
| Max. input current | 10A | 10A | 10A |
| Max. input current per string | 10A | 10A | 10A |
| Number of independent MPP trackers /strings per MPP tracker | 1/1 | 1/1 | 1/1 |
| Output (AC) | | | |
| Rated AC output power | 1000W | 1600W | 2000W |
| Max. AC power | 1000W | 1650W | 2000W |
| Max. output current | 4.6A | 7.5A | 8.7A |
| AC nominal voltage; range | 220,230,240V; 180Vac-280Vac | 220,230,240V; 180Vac-280Vac | 220,230,240V; 180Vac-280Vac |
| AC grid frequency; range | 50,60 Hz;±5 Hz | 50,60 Hz;±5 Hz | 50,60 Hz;±5 Hz |
| Power factor | 1 | 1 | 1 |
| THDI | <3% | <3% | <3% |
| AC connection | Single phase | Single phase | Single phase |
| Efficiency | | | |
| Max. efficiency | 97% | 97% | 97% |
| Euro weighted efficiency | 95.5% | 96.5% | 96.5% |
| MPPT efficiency | 99.5% | 99.5% | 99.5% |
| Protection Devices | | | |
| DC reverse polarity protection | yes | yes | yes |
| DC switch rating for each MPPT | yes | yes | yes |
| Output over current protection | yes | yes | yes |
| Output over voltage protection-varistor | yes | yes | yes |
| Ground fault monitoring | yes | yes | yes |
| Grid monitoring | yes | yes | yes |
| Integrated all - pole sensitive leakage current monitoring unit | yes | yes | yes |
| General Data | | | |
| Dimensions (W / H / D) in mm | 271*267*127 | 271*267*127 | 271*267*127 |
| Weight | 5KG | 5KG | 5.5KG |
| Operating temperature range | - 25°C ... +60°C (-13...+140°F) with derating above 45°C | | |
| Noise emission (typical) | ≤25 dB(A) | ≤25 dB(A) | ≤25 dB(A) |
| Altitude | 2000m(6560ft) without derating | 2000m(6560ft) without derating | 2000m(6560ft) without derating |
| Self-Consumption night | <0.5 W | <0.5 W | <0.5 W |
| Topology | Transformerless | Transformerless | Transformerless |
| Cooling concept | Natural | Natural | Natural |
| Environmental Protection Rating | IP 65 | IP 65 | IP 65 |
| Relative humidity | 100% | 100% | 100% |
| Features | | | |
| DC connection | H4 | H4 | H4 |
| AC connection | Connector | Connector | Connector |
| Display | LCD | LCD | LCD |
| Interfaces: RS232/ RF/ Wi-Fi/ Ethernet | yes /opt/opt/opt | yes /opt/opt/opt | yes /opt/opt/opt |
| Warranty: 5 years / 10 years | yes /opt | yes /opt | yes /opt |
| Certificates and Approvals | | | |
| CE, VDE 0126-1-1, IEC 62109, G83, SAA | | | |