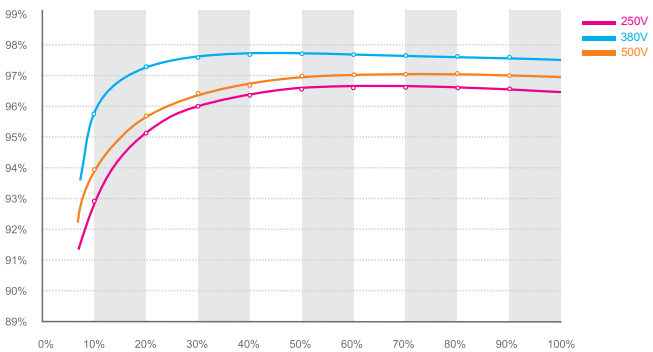
# Growatt 3600MTL/4200MTL/ 5000MTLS/ 5000MTL

## Leading - edge Technology

- Maximum efficiency of 97.9% and wide input voltage range
- Internal DC switch
- Transformerless GT topology
- Compact design
- Multi MPP controller
- MTL - String
- Ethernet / RF technology / WiFi
- Sound control
- Easy installation

Growatt 5000MTL efficiency

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| Datasheet | Growatt 3600MTL | Growatt 4200MTL | Growatt 5000MTLS | Growatt 5000MTL |
|---|---|---|---|---|
| **Input Data** | | | | |
| Max. recommended PV power (for module STC) | 4100W | 4800W | 5300W | 5800W |
| Max. DC voltage | 600V | 600V | 600V | 600V |
| Start voltage | 120V | 120V | 120V | 120V |
| PV voltage range | 90V-600V | 90V-600V | 90V-600V | 90V-600V |
| MPPT work voltage range / nominal voltage | 95V-600V/360V | 95V-600V/360V | 95V-600V/360V | 95V-600V/360V |
| Full load dc voltage range | 190V-580V | 175V-580V | 175V-580V | 175V-580V |
| Number of MPP trackers /strings per MPP tracker | 2 / 2 | 2 / 2 | 2 / 2 | 2 / 2 |
| Max. input current of tracker A /tracker B | 10A / 10A | 15A / 15A | 15A / 15A | 15A / 15A |
| Max. input current per string of tracker A/tracker B | 10A / 10A | 15A / 15A | 15A / 15A | 15A / 15A |
| **Output (AC)** | | | | |
| Rated AC output power | 3600W | 4200W | 4600W | 5000W |
| Max. AC apparent power | 3600VA | 4200VA | 4600VA | 5000VA |
| Max. output current | 18A | 21A | 23A | 25A |
| AC nominal voltage; range | 220V/230V/240V; 180Vac - 280Vac | 220V/230V/240V; 180Vac - 280Vac | 220V/230V/240V; 180Vac - 280Vac | 220V/230V/240V; 180Vac - 280Vac |
| AC grid frequency; range | 50, 60Hz ; ±5Hz | 50, 60Hz ; ±5Hz | 50, 60Hz ; ±5Hz | 50, 60Hz ; ±5Hz |
| Power factor at rate power | 1 | 1 | 1 | 1 |
| THDI | <3% | <3% | <3% | <3% |
| AC connection | Single phase | Single phase | Single phase | Single phase |
| **Efficiency** | | | | |
| Max.efficiency | 97.6% | 97.9% | 97.9% | 97.9% |
| Euro-eta | 97% | 97.4% | 97.4% | 97.4% |
| MPPT efficiency | 99.5% | 99.5% | 99.5% | 99.5% |
| **Protection Devices** | | | | |
| DC reverse polarity protection | yes | yes | yes | yes |
| DC switch for each MPPT | yes | yes | yes | yes |
| Output over current protection | yes | yes | yes | yes |
| Output overvoltage protection -varistor | yes | yes | yes | yes |
| Ground fault monitoring | yes | yes | yes | yes |
| Grid monitoring | yes | yes | yes | yes |
| Integrated all-pole sensitive leakage current monitoring unit | yes | yes | yes | yes |
| **General Data** | | | | |
| Dimensions (W / H / D) | 360/510/168 mm | 360/510/188 mm | 360/510/188 mm | 360/510/188 mm |
| Weight | 20kg | 24kg | 24kg | 24kg |
| Operating temperature range | -25 °C ... +60 °C | -25 °C ... +60 °C | -25 °C ... +60 °C | -25 °C ... +60 °C |
| Noise emission (typical) | ≤25 dB(A) | ≤25 dB(A) | ≤25 dB(A) | ≤25 dB(A) |
| Self-Consumption (night) | < 0.5W | < 0.5W | < 0.5W | < 0.5W |
| Topology | Transformerless | Transformerless | Transformerless | Transformerless |
| Cooling concept | Natural | Natural | Natural | Natural |
| Environmental Protection Rating | IP 65 | IP 65 | IP 65 | IP 65 |
| Altitude | 2000m without derating | 2000m without derating | 2000m without derating | 2000m without derating |
| Relative Humidity | 100% | 100% | 100% | 100% |
| **Features** | | | | |
| DC connection | H4/MC4(opt) | H4/MC4(opt) | H4/MC4(opt) | H4/MC4(opt) |
| AC connection | Screw terminal | Screw terminal | Screw terminal | Screw terminal |
| Display | LCD | LCD | LCD | LCD |
| Interfaces: RS232/RS485/ Ethernet/RF/WiFi | yes / opt / opt / opt / opt | yes / opt / opt / opt / opt | yes / opt / opt / opt / opt | yes / opt / opt / opt / opt |
| Warranty: 5 years / 10 years | yes / opt | yes / opt | yes / opt | yes / opt |
| **Certificates and Approvals** | | | | |
| CE, VDE0126-1-1, CGC, DK5940, G59, G83 ( Growatt 3600) , RD1663, RD1699, EN50438, IEC 62109, ENEL-GUIDE, AS4777, AS/NZS 3100 | | | | |