

# Growatt 3000~6000TL3-S

- Max. Efficiency 98%
- Dual MPP trackers
- Natural cooling
- Max.DC voltage 1000VDC
- Supports export limitation



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| Datasheet                                                                                                                      | 3000TL3-S              | 4000TL3-S              | 5000TL3-S              | 6000TL3-S              |
|--------------------------------------------------------------------------------------------------------------------------------|------------------------|------------------------|------------------------|------------------------|
| <b>Input Data</b>                                                                                                              |                        |                        |                        |                        |
| Max. recommended PV power (for module STC)                                                                                     | 3600W                  | 4800W                  | 6000W                  | 7200W                  |
| Max. DC voltage                                                                                                                | 1000V                  | 1000V                  | 1000V                  | 1000V                  |
| Start Voltage                                                                                                                  | 140V                   | 140V                   | 140V                   | 140V                   |
| MPPT voltage range                                                                                                             | 140V-1000V             | 140V-1000V             | 140V-1000V             | 140V-1000V             |
| Nominal voltage                                                                                                                | 620V                   | 620V                   | 620V                   | 620V                   |
| Max. input current                                                                                                             | 11A/11A                | 11A/11A                | 11A/11A                | 11A/11A                |
| Number of independent MPP trackers/strings per MPP tracker                                                                     | 2/1                    | 2/1                    | 2/1                    | 2/1                    |
| <b>Output (AC)</b>                                                                                                             |                        |                        |                        |                        |
| Rated AC output power                                                                                                          | 3000W                  | 4000W                  | 5000W                  | 6000W                  |
| Max. AC apparent power                                                                                                         | 3000VA                 | 4000VA                 | 5000VA                 | 6000VA                 |
| Max. output current                                                                                                            | 5.1A                   | 6.8A                   | 8.5A                   | 10.2A                  |
| AC nominal voltage                                                                                                             | 230V/400V ; 320-478V   | 230V/400V ; 320-478V   | 230V/400V ; 320-478V   | 230V/400V ; 320-478V   |
| AC grid frequency                                                                                                              | 50Hz/60Hz, ± 5Hz       | 50Hz/60Hz, ± 5Hz       | 50Hz/60Hz, ± 5Hz       | 50Hz/60Hz, ± 5Hz       |
| Power factor                                                                                                                   | 0.8leading - 0.8laging | 0.8leading - 0.8laging | 0.8leading - 0.8laging | 0.8leading - 0.8laging |
| THDi                                                                                                                           | <3%                    | <3%                    | <3%                    | <3%                    |
| AC grid connection type                                                                                                        | 3W+N+PE                | 3W+N+PE                | 3W+N+PE                | 3W+N+PE                |
| <b>Efficiency</b>                                                                                                              |                        |                        |                        |                        |
| Max. efficiency                                                                                                                | 97.5%                  | 97.8%                  | 98.0%                  | 98.0%                  |
| Euro - eta                                                                                                                     | 96.5%                  | 96.7%                  | 96.9%                  | 97.1%                  |
| MPPT efficiency                                                                                                                | 99.5%                  | 99.5%                  | 99.5%                  | 99.5%                  |
| <b>Protection Devices</b>                                                                                                      |                        |                        |                        |                        |
| DC reverse polarity protection                                                                                                 | yes                    | yes                    | yes                    | yes                    |
| DC switch                                                                                                                      | yes                    | yes                    | yes                    | yes                    |
| Output over current protection                                                                                                 | yes                    | yes                    | yes                    | yes                    |
| Output AC 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                    |
| <b>General Data</b>                                                                                                            |                        |                        |                        |                        |
| Dimensions (W / H / D) in mm                                                                                                   | 480/448/200            | 480/448/200            | 480/448/200            | 480/448/200            |
| Weight                                                                                                                         | 21.2kg                 | 21.2kg                 | 21.2kg                 | 21.2kg                 |
| Operating temperature range                                                                                                    | -25 °C ... +60 °C      | -25 °C ... +60 °C      | -25 °C ... +60 °C      | -25 °C ... +60 °C      |
| Noise emission (typical)                                                                                                       | ≤35 dB(A)              | ≤35 dB(A)              | ≤35 dB(A)              | ≤35 dB(A)              |
| Altitude                                                                                                                       | 3000m                  | 3000m                  | 3000m                  | 3000m                  |
| 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                                                                                                | IP65                   | IP65                   | IP65                   | IP65                   |
| Relative humidity                                                                                                              | 0~100%                 | 0~100%                 | 0~100%                 | 0~100%                 |
| <b>Features</b>                                                                                                                |                        |                        |                        |                        |
| DC connection                                                                                                                  | H4/MC4(opt)            | H4/MC4(opt)            | H4/MC4(opt)            | H4/MC4(opt)            |
| AC connection                                                                                                                  | Connector              | Connector              | Connector              | Connector              |
| Display                                                                                                                        | LCD                    | LCD                    | LCD                    | LCD                    |
| Interfaces:RS232/RS485/RF/Ethernet/Wi-Fi                                                                                       | yes/yes/opt/opt/opt    | yes/yes/opt/opt/opt    | yes/yes/opt/opt/opt    | yes/yes/opt/opt/opt    |
| Warranty:5 years/10 years                                                                                                      | yes/opt                | yes/opt                | yes/opt                | yes/opt                |
| CE, IEC 62109-1/2, VDE 0126-1-1, Greece, UTE C 15-712, VDE-AR-N4105, G98, EN50438, CEI 0-21, AS4777, IEC 61727, IEC 62116, CQC |                        |                        |                        |                        |