

# MOD 3000~9000 TL3-X



- Max. efficiency 98.6%
- OLED and touch button
- Type II SPD on DC and AC side
- String Monitoring
- AFCI function ready

## GROWATT · PRODUCT

| Datasheet                                                                                                                                                                   | MOD 3000TL3-X                   | MOD 4000TL3-X | MOD 5000TL3-X | MOD 6000TL3-X                               | MOD 7000TL3-X | MOD 8000TL3-X | MOD 9000TL3-X |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|---------------|---------------|---------------------------------------------|---------------|---------------|---------------|
| Input data (DC)                                                                                                                                                             |                                 |               |               |                                             |               |               |               |
| Max. recommended PV power (for module STC)                                                                                                                                  | 4500W                           | 6000W         | 7500W         | 9000W                                       | 10500W        | 12000W        | 13500W        |
| Max. DC voltage                                                                                                                                                             |                                 |               |               | 1100V                                       |               |               |               |
| Start voltage                                                                                                                                                               |                                 |               |               | 160V                                        |               |               |               |
| Nominal voltage                                                                                                                                                             |                                 |               |               | 580V                                        |               |               |               |
| MPPT voltage range                                                                                                                                                          |                                 |               |               | 140V-1000V                                  |               |               |               |
| No. of MPP trackers                                                                                                                                                         |                                 |               |               | 2                                           |               |               |               |
| No. of PV strings per MPP tracker                                                                                                                                           |                                 |               |               | 1                                           |               |               |               |
| Max. input current per MPP tracker                                                                                                                                          |                                 |               |               | 13A                                         |               |               |               |
| Max. short-circuit current per MPP tracker                                                                                                                                  |                                 |               |               | 16A                                         |               |               |               |
| Output data (AC)                                                                                                                                                            |                                 |               |               |                                             |               |               |               |
| AC nominal power                                                                                                                                                            | 3000W                           | 4000W         | 5000W         | 6000W                                       | 7000W         | 8000W         | 9000W         |
| Max. AC apparent power                                                                                                                                                      | 3300VA                          | 4400VA        | 5500VA        | 6600VA                                      | 7700VA        | 8800VA        | 9900VA        |
| Nominal AC voltage (range*)                                                                                                                                                 | 220V/380V, 230V/400V (340-440V) |               |               |                                             |               |               |               |
| AC grid frequency (range*)                                                                                                                                                  | 50/60 Hz (45-55Hz/55-65 Hz)     |               |               |                                             |               |               |               |
| Max. output current                                                                                                                                                         | 5.0A                            | 6.7A          | 8.3A          | 10.0A                                       | 11.7A         | 13.3A         | 15.0A         |
| Adjustable power factor                                                                                                                                                     | 0.8leading...0.8lagging         |               |               |                                             |               |               |               |
| THDi                                                                                                                                                                        | <3%                             |               |               |                                             |               |               |               |
| AC grid connection type                                                                                                                                                     | 3W+N+PE                         |               |               |                                             |               |               |               |
| Efficiency                                                                                                                                                                  |                                 |               |               |                                             |               |               |               |
| MAX. efficiency                                                                                                                                                             | 98.3%                           | 98.3%         | 98.3%         | 98.3%                                       | 98.6%         | 98.6%         | 98.6%         |
| European efficiency                                                                                                                                                         | 97.5%                           | 97.5%         | 97.5%         | 97.5%                                       | 98.1%         | 98.1%         | 98.1%         |
| MPPT efficiency                                                                                                                                                             |                                 |               |               | 99.9%                                       |               |               |               |
| Protection devices                                                                                                                                                          |                                 |               |               |                                             |               |               |               |
| DC reverse polarity protection                                                                                                                                              |                                 |               |               | Yes                                         |               |               |               |
| DC Switch                                                                                                                                                                   |                                 |               |               | Yes                                         |               |               |               |
| AC/DC surge protection                                                                                                                                                      |                                 |               |               | Type II / Type II                           |               |               |               |
| Insulation resistance monitoring                                                                                                                                            |                                 |               |               | Yes                                         |               |               |               |
| AC short-circuit protection                                                                                                                                                 |                                 |               |               | Yes                                         |               |               |               |
| Ground fault monitoring                                                                                                                                                     |                                 |               |               | Yes                                         |               |               |               |
| Grid monitoring                                                                                                                                                             |                                 |               |               | Yes                                         |               |               |               |
| Anti-islanding protection                                                                                                                                                   |                                 |               |               | Yes                                         |               |               |               |
| Residual-current monitoring unit                                                                                                                                            |                                 |               |               | Yes                                         |               |               |               |
| String fault monitoring                                                                                                                                                     |                                 |               |               | Yes                                         |               |               |               |
| AFCI protection                                                                                                                                                             |                                 |               |               | Yes                                         |               |               |               |
| General data                                                                                                                                                                |                                 |               |               |                                             |               |               |               |
| Dimensions (W / H / D)                                                                                                                                                      | 425/387/147mm                   | 425/387/147mm | 425/387/147mm | 425/387/147mm                               | 425/387/178mm | 425/387/178mm | 425/387/178mm |
| Weight                                                                                                                                                                      | 12.5kg                          | 12.5kg        | 12.5kg        | 12.5kg                                      | 14kg          | 14kg          | 14kg          |
| Operating temperature range                                                                                                                                                 |                                 |               |               | - 25°C ... +60°C                            |               |               |               |
| Nighttime power consumption                                                                                                                                                 |                                 |               |               | < 1W                                        |               |               |               |
| Topology                                                                                                                                                                    |                                 |               |               | Transformerless                             |               |               |               |
| Cooling                                                                                                                                                                     |                                 |               |               | Natural convection                          |               |               |               |
| Protection degree                                                                                                                                                           |                                 |               |               | IP66                                        |               |               |               |
| Relative humidity                                                                                                                                                           |                                 |               |               | 0~100%                                      |               |               |               |
| Altitude                                                                                                                                                                    |                                 |               |               | 4000m                                       |               |               |               |
| DC connection                                                                                                                                                               |                                 |               |               | H4/MC4(Optional)                            |               |               |               |
| AC connection                                                                                                                                                               |                                 |               |               | Connector                                   |               |               |               |
| Display                                                                                                                                                                     |                                 |               |               | OLED + LED/WIFI + APP                       |               |               |               |
| Interfaces: USB/RS485/WIFI/ GPRS/LAN/RF                                                                                                                                     |                                 |               |               | yes/yes/Optional/Optional/Optional/Optional |               |               |               |
| Warranty: 10 years                                                                                                                                                          |                                 |               |               | Yes                                         |               |               |               |
| CE, VDE0126, Greece, EN50549, C10/C11, VFR 2015, IEC62116, IEC61727, IEC 60068, IEC 61683, CEI0-21, N4105, TOR Erzeuger G98/G99, G100, AS4777, UNE217001, UNE206007, PO12.2 |                                 |               |               |                                             |               |               |               |

\* The AC voltage range and frequency range may vary depending on specific country grid standard. All specifications are subject to change without notice.

\* AFCI function need to be activated after installation.