

# MOD 3000~9000TL3-X

- Max. efficiency 98.6%
- OLED and Touch button
- Type II SPD on DC and AC side
- String Monitoring
- AFCI optional



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| Datasheet   | MOD 3000TL3-X                               | MOD 4000TL3-X | MOD 5000TL3-X | MOD 6000TL3-X | MOD 7000TL3-X | MOD 8000TL3-X | MOD 9000TL3-X |
|---|---|---------------|---------------|---------------|---------------|---------------|---------------|
| <b>Input data (DC)</b>  |   |               |               |               |               |               |               |
| Max. recommended PV power (for module STC)  | 4500W                                       | 6000W         | 7500W         | 9000W         | 10500W        | 12000W        | 13500W        |
| Max. DC voltage   | 1100V                                       |               |               |               |               |               |               |
| Start voltage   | 200V  |               |               |               |               |               |               |
| 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   |               |               |               |               |               |               |
| <b>Output data (AC)</b>   |   |               |               |               |               |               |               |
| 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                                     |               |               |               |               |               |               |
| <b>Efficiency</b>   |   |               |               |               |               |               |               |
| 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%                                       |               |               |               |               |               |               |
| <b>Protection devices</b>   |   |               |               |               |               |               |               |
| 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   | Optional                                    |               |               |               |               |               |               |
| <b>General data</b>   |   |               |               |               |               |               |               |
| 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: 5 / 10 years  | Yes/Optional                                |               |               |               |               |               |               |
| CE, VDE0126, Greece, EN50549, C10/C11, UTE C 15-712, 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.