

# MOD 3000~6000TL3-X2(Pro)

- Max. efficiency 98.3%
- OLED and Touch button
- Type II SPD on DC and AC side
- String Monitoring
- AFCI optional



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| Datasheet                                           | MOD 3000TL3-X2 (Pro)                        | MOD 4000TL3-X2 (Pro) | MOD 5000TL3-X2 (Pro) | MOD 6000TL3-X2 (Pro) |
|-----------------------------------------------------|---------------------------------------------|----------------------|----------------------|----------------------|
| Input data (DC)                                     |                                             |                      |                      |                      |
| Max. recommended PV power (for module STC)          | 4500W                                       | 6000W                | 7500W                | 9000W                |
| Max. DC voltage                                     | 1100V                                       |                      |                      |                      |
| Start voltage                                       | 160V                                        |                      |                      |                      |
| Nominal voltage                                     | 600V                                        |                      |                      |                      |
| MPPT voltage range                                  | 140V-1000V                                  |                      |                      |                      |
| No. of MPP trackers                                 | 2                                           |                      |                      |                      |
| No. of PV strings per MPP tracker                   | 1                                           |                      |                      |                      |
| Max. input current per MPP tracker                  | 20A                                         |                      |                      |                      |
| Max. short-circuit current per MPP tracker          | 25A                                         |                      |                      |                      |
| Output data (AC)                                    |                                             |                      |                      |                      |
| AC nominal power                                    | 3000W                                       | 4000W                | 5000W                | 6000W                |
| Max. AC apparent power                              | 3300VA                                      | 4400VA               | 5500VA               | 6600VA               |
| 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                |
| 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%                |
| European efficiency                                 | 97.5%                                       | 97.5%                | 97.5%                | 97.5%                |
| 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                                         |                      |                      |                      |
| AFCL protection                                     | Optional                                    |                      |                      |                      |
| General data                                        |                                             |                      |                      |                      |
| Dimensions (W / H / D)                              | 425/387/178mm                               |                      |                      |                      |
| Weight                                              | 14.6kg                                      |                      |                      |                      |
| 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 , G98/99, IEC62116, IEC61727, IEC60068, IEC61683 |                                             |                      |                      |                      |

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