

MIN 7000~10000 TL-X

- Maximum efficiency 98.1%
- 3 MPP trackers
- Type II SPD on DC side
- Supports export control
- Touch key and OLED display



P O W E R
- I N G
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| Datasheet | MIN 7000TL-X (E) | MIN 8000TL-X (E) | MIN 7000TL-X | MIN 8000TL-X | MIN 9000TL-X | MIN 10000TL-X |
|---|---|------------------|-------------------|--------------|-------------------------|---------------|
| Input data (DC) | | | | | | |
| Max. recommended PV power (for module STC) | 11200W | 11200W | 12000W | 12000W | 13500W | 15000W |
| MPP voltage range | 60-550V (for solar design purpose) | | | | | |
| Start voltage | 100V | | | | | |
| Nominal voltage | 360V | | | | | |
| Max. DC voltage | 600V | | | | | |
| No. of MPP trackers | 2 | 2 | 3 | 3 | 3 | 3 |
| No. of PV strings per MPP tracker | 1/2 | | 1/1/1 | | 1/1/1+1 | |
| Max. input current per MPP tracker | 13.5A/27A | | 13.5A/13.5A/13.5A | | 13.5A/13.5A/13.5A+13.5A | |
| Max. short-circuit current per MPP tracker | 16.9A/33.8A | | 16.9A/16.9A/16.9A | | 16.9A/16.9A/16.9A+16.9A | |
| | (Please note that for each PV string, solar panels cannot be connected in parallel on the roof) | | | | | |
| Output data (AC) | | | | | | |
| AC nominal power | 7000W | 8000W | 7000W | 8000W | 9000W | 10000W |
| Max. AC apparent power | 7000VA | 8000VA | 7000VA | 8000VA | 9000VA | 10000VA |
| Nominal AC voltage(range*) | 220V/160~300V | | | | | |
| AC grid frequency(range*) | 50/60Hz(44-55Hz/54-65Hz) | | | | | |
| Max. output current | 33.5A | 38.3A | 33.5A | 38.3A | 43A | 45.5A |
| Adjustable power factor | 0.8leading...0.8lagging | | | | | |
| THDI | <3% | | | | | |
| AC grid connection type | Single phase | | | | | |
| Efficiency | | | | | | |
| Max. efficiency | 98.1% | | | | | |
| European efficiency | 97.3% | 97.3% | 97.3% | 97.3% | 97.6% | 97.6% |
| MPPT efficiency | 99.5% | | | | | |
| Protection devices | | | | | | |
| DC reverse polarity protection | Yes | | | | | |
| DC switch | Yes | | | | | |
| DC/AC surge protection | Type II / Type III | | | | | |
| 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 | | | | | |
| AFCI protection | Optional | | | | | |
| General data | | | | | | |
| Dimensions (W / H / D) | 425/387/180mm | | | | | |
| Weight | 18.2kg | | | | | |
| Nighttime power consumption | - 25 °C ... +60 °C < 1W | | | | | |
| Topology | Transformerless | | | | | |
| Cooling | Natural convection | | | | | |
| Protection degree | IP66 | | | | | |
| Relative humidity | 0-100% | | | | | |
| Altitude | 4000m | | | | | |
| DC connection | H4/MC4(Optional) | | | | | |
| AC connection | Cable gland +OT terminal | | | | | |
| Display | OLED+LED/WIFI+APP | | | | | |
| Interfaces: RS485 / USB/WI-FI/ GPRS/ RF/LAN | Yes/Yes/Optional/Optional/Optional /Optional | | | | | |
| Warranty: 5 years / 10 years | Yes/Optional | | | | | |
| CE, IEC 62116, IEC 61727, IEC62109, INMETRO, AS4777 | | | | | | |

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