

MIN 2500~6000TL-XH

- Max. efficiency 98.4%
- Dual MPP trackers
- Type II SPD on DC side
- Active Arcing Protection
- Battery ready, future proof
- 24h self-consumption monitoring



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| Datasheet | MIN 2500TL-XH | MIN 3000TL-XH | MIN 3600TL-XH | MIN 4200TL-XH | MIN 4600TL-XH | MIN 5000TL-XH | MIN 6000TL-XH |
|---|--|---------------|---------------|---------------|---------------|---------------|---------------|
| Input data (DC) | | | | | | | |
| Max. recommended PV power (for module STC) | 5000W | 6000W | 7200W | 8400W | 9200W | 10000W | 10000W |
| Max. DC voltage | 500V | 500V | 550V | 550V | 550V | 550V | 550V |
| Start voltage | 100V | | | | | | |
| Nominal voltage | 360V | | | | | | |
| MPP voltage range | 70V-500V | 70V-500V | 70V-550V | 70V-550V | 70V-550V | 70V-550V | 70V-550V |
| Full load voltage range | 95V-450V | 115V-450V | 140V-500V | 160V-500V | 180V-500V | 190V-500V | 230V-500V |
| No. of MPP trackers/strings per MPP tracker | 2/1 | | | | | | |
| Max. input current per MPP tracker | 13.5A | | | | | | |
| Max. short-circuit current per MPP trackers | 16.9A | | | | | | |
| Input data (DC battery) | | | | | | | |
| Compatible battery | ARK XH Battery System (5.12kWh-17.9kWh), APX 5.0-30.0P-S0 (5kWh-30kWh) | | | | | | |
| Operating voltage range | 360-500V | | | 360-550V | | | |
| Max. operating current | 17A | | | | | | |
| Max. charge power | 6000W | | | | | | |
| Max. discharge power | 2500W | 3000W | 3600W | 4200W | 4600W | 5000W | 6000W |
| Output data (AC) | | | | | | | |
| AC nominal power | 2500W | 3000W | 3600W | 4200W | 4600W | 5000W | 6000W |
| Max. AC apparent power | 2500VA | 3000VA | 3600VA | 4200VA | 4600VA | 5000VA | 6000VA |
| Nominal AC voltage (range*) | 220/230V (160-276V) | | | | | | |
| AC grid frequency (range*) | 50/60 Hz (45-55Hz/55-65 Hz) | | | | | | |
| Max. output current | 11.3A | 13.6A | 16A | 19A | 20.9A | 22.7A | 27.2A |
| Adjustable power factor | 0.8leading...0.8lagging | | | | | | |
| THDi | <3% | | | | | | |
| AC grid connection type | Single phase | | | | | | |
| Output data (Backup*) | | | | | | | |
| Max. apparent power | 2500VA | 3000VA | 3600VA | 4200VA | 4600VA | 5000VA | 6000VA |
| Nominal AC voltage | 220/230V | | | | | | |
| AC grid frequency | 50/60Hz | | | | | | |
| Efficiency | | | | | | | |
| Max. efficiency | 98.2% | 98.2% | 98.2% | 98.4% | 98.4% | 98.4% | 98.4% |
| European efficiency | 97.1% | 97.1% | 97.2% | 97.2% | 97.5% | 97.5% | 97.5% |
| MPPT efficiency | 99.9% | | | | | | |
| 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* | Yes | | | | | | |
| General data | | | | | | | |
| Dimensions (W / H / D) | 375/350/160mm | | | | | | |
| Weight | 10.8kg | | | | | | |
| Operating temperature range | -25°C ... +60°C | | | | | | |
| Altitude | 4000m | | | | | | |
| Self-Consumption night | <3W | | | | | | |
| Topology | Transformerless | | | | | | |
| Cooling | Natural convection | | | | | | |
| Protection degree | IP65 | | | | | | |
| Relative humidity | 0%-100% | | | | | | |
| DC connection | H4/MC4(Optional) | | | | | | |
| AC connection | Connector | | | | | | |
| Display | OLED+LED/WIFI+APP | | | | | | |
| Interfaces: RS485/USB/Wi-Fi/GPRS/Rf/LAN | Yes/Yes/Optional/Optional/Optional/Optional | | | | | | |
| Warranty:10 years | Yes | | | | | | |

CE, IEC 62109, AS/NZS 4777.2, CEI 0-21, VDE-AR-N 4105, VDE 0126-1-1, VFR 2019, EN 50549, IEC 62116, IEC 61727, G98/G99, UNE 217001, UNE 206007, PO12.2

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

* Backup power function need a Backup Box accessory.

* AFCI function need to be activated after installation.