

MIN 2500~6000TL-XH

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



P O W E R
- I N G O
T O M O -
R R O W O

GROWATT

| 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 |
| 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) | | |
| 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*) | | | | 230V (180-280V) | | | |
| 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 | | | | 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 | | | | Optional | | | |
| General data | | | | | | | |
| Dimensions (W / H / D) | | | | 375/350/160mm | | | |
| Weight | | | | 10.8kg | | | |
| Operating temperature range | | | | -25°C ... +60°C | | | |
| Altitude | | | | 4000m | | | |
| Self-Consumption night | | | | < 10W | | | |
| 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: 5 years / 10 years | | | | Yes /Optional | | | |
| CE, IEC62109, AS/NZS 4777.2, CEI 0-21, VDE-AR-N 4105, VDE 0126-1-1, UTE C 15-712-1,EN 50549, IEC 62116, IEC 61727, G98/G99 | | | | | | | |

* 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.