

MIN 8200~11400TL-XH-US

- Battery Ready for DC Coupled and AC Coupled systems
- With backup power and dark start operations
- Support RSD and AFCI
- Support multiple energy management modes: Self-consumption, Zero Export, TOU and Off-grid
- Comply with UL1741SA, CA Rule 21 & HECO



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| Datasheet | MIN 8200TL-XH-US | MIN 9000TL-XH-US | MIN 10000TL-XH-US | MIN 11400TL-XH-US |
|---|---|------------------|--|-------------------|
| Input Data (PV) | | | | |
| Max. Recommended PV Power(STC) | 16400W | 18000W | 20000W | 22800W |
| DC/AC Ratio | | | 2 | |
| Max. DC System Voltage | | | 600V | |
| Startup Voltage | | | 50V | |
| Full load voltage range | 170-500V | 190-500V | 210-500V | 235-500V |
| Nominal Voltage | | | 360V | |
| Operating Voltage Range | | | 50~550V | |
| No. of MPP Trackers | | | 4 | |
| No. of PV Strings per MPP Trackers | | | 2 | |
| Max. Input Current per MPP Trackers | | | 13.5A | |
| Max. Short-circuit current per MPP trackers | | | 16.9A | |
| Input/Output Data (DC) | | | | |
| Battery Voltage Range | | | 360V~550V | |
| Nominal DC Voltage | | | 400V | |
| I/O DC Current | 24A/24A | 27A/27A | 30A/30A | 30A/30A |
| I/O DC Power | 8500W | 9300W | 10300W | 10300W |
| Battery Technology | | | LFP / NMC | |
| Battery Capacity per Module | | | 9.9kWh / 9.6kWh | |
| Scalability | | | Up to 4 / Up to 2 in parallel | |
| Compatible Batteries | | | Growatt ARO HV battery / LG Prime (Gen3) battery | |
| Output Data (AC) | | | | |
| AC Nominal Power@240V AC | 8200W | 9000W | 10000W | 11400W |
| AC Nominal Power@208V AC | 7280W | 7900W | 8735W | 9880W |
| Max. AC Apparent Power | 8200VA | 9000VA | 10000VA | 11400VA |
| Nominal AC Voltage | | | 208V/240V | |
| AC Voltage Range @208V AC @240V AC | | | 183V~229V/211V~264V | |
| AC Grid Frequency | | | 50/60Hz | |
| AC Grid Frequency Range | | | 45~65Hz | |
| Max. Output Current | 35A | 38A | 42A | 48A |
| Power Factor(@Nominal Power) | | | >0.99 | |
| Adjustable Power Factor | | | 0.8 leading~0.8 lagging | |
| THDi | | | <3% | |
| AC Grid Connection Type | | | L1/L2/N/PE | |
| Output Data (Backup) | | | | |
| AC Nominal Power | 8200W | 9000W | 10000W | 11400W* |
| Max. AC Power Output | 9840VA | 10800VA | 12000VA | 13680VA |
| Nominal AC Voltage | | | 240V | |
| Max. Output Current | 41A | 45A | 50A | 57A |
| THD | | | 5% | |
| AC Port-V2 inverter | 2AC Ports, 1 for ON Grid, 1 for Backup(EPS) compatible with ATS-US for Partial Home Backup | | | |
| AC Port-V3 Inverter | 1AC Port for 1 ON Grid compatible with SYN200-US for Whole Home Backup | | | |
| Efficiency | | | | |
| Max. Efficiency | 98.3% | 98.3% | 98.3% | 98.5% |
| CEC Efficiency@208V AC | 97.5% | 97.5% | 97.5% | 97.5% |
| CEC Efficiency@240V AC | 97.5% | 97.5% | 97.5% | 98.0% |
| Protection Devices | | | | |
| DC Reverse-polarity Protection | | | Yes | |
| DC Switch | | | Yes | |
| DC Surge Protection | | | Type II | |
| Insulation Resistance Monitoring | | | Yes | |
| AC Surge Protection | | | Type III | |
| AC short-circuit Protection | | | Yes | |
| Ground Fault Monitoring | | | Yes | |
| Grid Monitoring | | | Yes | |
| Anti-Islanding Protection | | | Yes | |
| Residual-current Monitoring Unit | | | Yes | |
| AFCL Protection | | | Yes | |
| General Data | | | | |
| Dimensions (W / H / D) | 15.8/25.2/7.4inch(400/638/187mm) | | | |
| Weight | 45.2 lbs /20.5kg | | | |
| Operating Temperature Range | -13°F ~ +140°F (-25 °C ~ +60 °C)de-rating above 113°F | | | |
| Altitude | 9843ft (3000m) | | | |
| Internal Consumption at Night | <1W (for PV inverter)/ <5W (for storage inverter) | | | |
| Cooling | Natural Convection | | | |
| Electronics Protection Degree | NEMA4X (IP65) | | | |
| Relative Humidity | 0~95% | | | |
| Interfaces | | | | |
| RS485 | Yes | | | |
| WiFi/4G Communication | Optional | | | |
| Warranty: 10 Years | Yes(optional for extended 15 and 20 years warranty) | | | |
| Revenue Grade Meter | ANSI C12.20 (meet 0.5% accuracy) | | | |

IEEE1547, CA Rule21, Rule14(HECO Compliant), FCC Part15 Class B, UL1741,UL1741SA,CSA C22.2, UL1699B, UL1741 CRD, UL9540

*11.4kW off-grid output requires both PV and battery power supply, and the battery itself has a rated off-grid power of 10kW.