

MID 11~30KTL3-XH

- Battery ready, up to 30kW
- DC/AC ratio up to 2
- AFCI function ready
- Type II SPD on DC and AC side
- 24h self-consumption monitoring



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Preliminary

| Datasheet | MID 11KTL3-XH | MID 12KTL3-XH | MID 13KTL3-XH | MID 15KTL3-XH | MID 17KTL3-XH | MID 20KTL3-XH | MID 25KTL3-XH | MID 30KTL3-XH |
|---|---|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Input data (DC) | | | | | | | | |
| Max. recommended PV power (for module STC) | 22000W | 24000W | 26000W | 30000W | 34000W | 40000W | 50000W | 60000W |
| Max. DC voltage | 1100V | | | | | | | |
| Start voltage | 200V | | | | | | | |
| Nominal voltage | 600V | | | | | | | |
| MPPT voltage range | 160V-1000V | | | | | | | |
| No. of MPP trackers | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 |
| No. of PV strings per MPP tracker | 2 | | | | | | | |
| Max. input current per MPP tracker | 32A | | | | | | | |
| Max. short-circuit current per MPP tracker | 40A | | | | | | | |
| Input data (DC battery) | | | | | | | | |
| Compatible battery | APX HV Battery System (5kWh~60kWh) | | | | | | | |
| Operating voltage range | 600 V-980 V | | | | | | | |
| Max. operating current | 25A/25A* ¹ | | | | | | | |
| Max. charge power | 15000W or 30000W* ² | | | | | | | |
| Max. discharge power | 11000W | 12000W | 13000W | 15000W | 17000W | 20000W | 25000W | 30000W |
| Output data (AC) | | | | | | | | |
| AC nominal power | 11000W | 12000W | 13000W | 15000W | 17000W | 20000W | 25000W | 30000W |
| Max. AC apparent power | 12100VA | 13200VA | 14300VA | 16500VA | 18700VA | 22000VA | 27500VA | 30000VA |
| 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 | 18.3A | 20A | 21.7A | 25A | 28.3A | 33.3A | 41.6A | 45.5A |
| Adjustable power factor | 0.8leading...0.8lagging | | | | | | | |
| THDI | <3% | | | | | | | |
| AC grid connection type | 3W+N+PE | | | | | | | |
| Efficiency | | | | | | | | |
| MAX. efficiency | 98.75% | | | | | | 98.80% | |
| European efficiency | 98.5% | | | | | | | |
| 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 | | | | | | | |
| AFCI protection* ³ | Optional | | | | | | | |
| General data | | | | | | | | |
| Dimensions (W / H / D) | 580/435/230mm | | | | | | | |
| Weight | 31kg | | | | | | | |
| Operating temperature range | - 25°C ... +60°C | | | | | | | |
| Nighttime power consumption | <5.5W | | | | | | | |
| Topology | Transformerless | | | | | | | |
| Cooling | Smart air cooling | | | | | | | |
| 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: USB/RS485/WIFI/GPRS/LAN/RF | Yes/Yes/Optional/Optional/Optional/Optional | | | | | | | |
| Warranty: 5years / 10 years | Yes/Optional | | | | | | | |
| CE, VDE0126, Greece, EN50549-1, C10/C11, VFR 2019, IEC62116, IEC61727, IEC 60068, IEC 61683, CEI0-21, N4105, TOR Erzeuger G98/G99, G100, AS4777, UNE217001, UNE206007, PO12.2 | | | | | | | | |

* 1 Inverter with 2 battery ports, each with max. 25A.

* 2 For single battery port connected, the maximum power is 15kW. When two ports are used, the power can reach 30kW.

* 3 AFCI function need to be activated after installation.