# MID 15~25KTL3-X

- Max.efficiency 98.7%
- 40% compact and lighter
- Dual MPP trackers
- Supports export control
- Touch key and OLED display
- Type II SPD on AC and DC side
- Data storage up to 25 years
- DC side 2 in 1 connection enabled






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| Datasheet | MID 15KTL3-X | MID 17KTL3-X | MID 20KTL3-X | MID 22KTL3-X | MID 25KTL3-X |
|---|---|---|---|---|---|
| **Input data (DC)** | | | | | |
| Max. recommended PV power (for module STC) | 22500W | 25500W | 30000W | 33000W | 37500W |
| Max. DC voltage | 1100V | | | | |
| Start Voltage | 250V | | | | |
| Nominal voltage | 580V | | | | |
| MPPT voltage range | 160V-1000V | | | | |
| No. of MPP trackers | 2 | | | | |
| No. of PV strings per MPP tracker | 2 | 2 | 2 | 2 | 2/3 |
| Max. input current per MPPT tracker | 25A | 25A | 25A | 25A | 25A/37.5A |
| Max. short circuit current per MPPT | 32A | 32A | 32A | 32A | 32A/48A |
| **Output data (AC)** | | | | | |
| Rated AC output power | 15000W | 17000W | 20000W | 22000W | 25000W |
| Max. AC apparent power | 16600VA | 18800VA | 22000VA | 24400VA | 27700VA |
| 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 | 24.2A | 27.4A | 31.9A | 35.5A | 40.2A |
| Adjustable power factor | 0.8leading...0.8lagging | | | | |
| THDi | <3% | | | | |
| AC grid connection type | 3W+N+PE | | | | |
| **Efficiency** | | | | | |
| Max.efficiency | 98.75% | | | | |
| European efficiency | 98.6% | | | | |
| MPPT efficiency | 99.9% | | | | |
| **Protection devices** | | | | | |
| DC reverse polarity protection | Yes | | | | |
| DC Switch | Yes | | | | |
| AC/DC surge protection | TypeII/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 monitoring | Optional | | | | |
| AFCI protection | Optional | | | | |
| **General data** | | | | | |
| Dimensions (W / H / D) | 525/395/222mm | | | | |
| Weight | 23kg | | | | |
| Operating temperature range | -25 °C ... +60 °C | | | | |
| Noise emission (typical) | ≤40 dB(A) | | | | |
| Self-Consumption (night) | <1W | | | | |
| Topology | Transformerless | | | | |
| Cooling | Smart air cooling | | | | |
| Protection degree | IP65 | | | | |
| 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 / WiFi/ GPRS / RF/ LAN | Yes/Yes /Optional/Optional/Optional/Optional | | | | |
| Warranty: 5 years / 10 years | Yes /Optional | | | | |
| CE, VDE0126, Greece, EN50549, C10/C11, UTE C 15-712, IEC62116, IEC61727, IEC 60068, IEC 61683, CEI0-21, N4105, TOR Erzeuger, G98/G99, G100, UNE217001, UNE206007, PO12.2, KSC8565 | | | | | |

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

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