

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



P O W E R
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| Datasheet | MID 15KTL3-X | MID 17KTL3-X | MID 20KTL3-X | MID 22KTL3-X | MID 25KTL3-X |
|---|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|
| Input Data | | | | | |
| Max. recommended PV power (for module STC) | 19500W | 22100W | 26000W | 28600W | 32500W |
| Max. DC voltage | 1100V | 1100V | 1100V | 1100V | 1100V |
| Start Voltage | 250V | 250V | 250V | 250V | 250V |
| MPPT voltage range | 200V-1000V | 200V-1000V | 200V-1000V | 200V-1000V | 200V-1000V |
| Nominal voltage | 580V | 580V | 580V | 580V | 580V |
| Number of MPP trackers/ Strings per MPP tracker | 2/2 | 2/2 | 2/2 | 2/2 | 2/2+3 |
| Max. input current per MPPT | 25A | 25A | 25A | 25A | 25A/37.5A |
| Max. short circuit current per MPPT | 32A | 32A | 32A | 32A | 32A/48A |
| Output (AC) | | | | | |
| Rated AC output power | 15000W | 17000W | 20000W | 22000W | 25000W |
| Max. AC apparent power | 16600VA | 18800VA | 22000VA | 24400VA | 27700VA |
| AC nominal voltage; range | 230V/400V; 340-440V | 230V/400V; 340-440V | 230V/400V; 340-440V | 230V/400V; 340-440V | 230V/400V; 340-440V |
| AC grid frequency; range | 50/60 Hz; 45~55Hz/55-65 Hz | 50/60 Hz; 45~55Hz/55-65 Hz | 50/60 Hz; 45~55Hz/55-65 Hz | 50/60 Hz; 45~55Hz/55-65 Hz | 50/60 Hz; 45~55Hz/55-65 Hz |
| Max. output current | 24.2A | 27.4A | 31.9A | 35.5A | 40.2A |
| Power factor | 0.8 leading - 0.8 lagging | 0.8 leading - 0.8 lagging | 0.8 leading - 0.8 lagging | 0.8 leading - 0.8 lagging | 0.8 leading - 0.8 lagging |
| THDi | <3% | <3% | <3% | <3% | <3% |
| AC grid connection type | 3W+N+PE | 3W+N+PE | 3W+N+PE | 3W+N+PE | 3W+N+PE |
| Efficiency | | | | | |
| Max. efficiency | 98.5% | 98.6% | 98.6% | 98.7% | 98.7% |
| Euro - eta | 98.1% | 98.2% | 98.2% | 98.3% | 98.3% |
| Protection Devices | | | | | |
| DC reverse polarity protection | yes | yes | yes | yes | yes |
| DC Switch | yes | yes | yes | yes | yes |
| DC Surge protection | Typell | Typell | Typell | Typell | Typell |
| Ground fault monitoring | yes | yes | yes | yes | yes |
| Output short circuit protection | yes | yes | yes | yes | yes |
| AC Surge protection | Typell | Typell | Typell | Typell | Typell |
| String monitoring | opt | opt | opt | opt | opt |
| AFCl protection | opt | opt | opt | opt | opt |
| General Data | | | | | |
| Dimensions (W / H / D) in mm | 525/395/222 | 525/395/222 | 525/395/222 | 525/395/222 | 525/395/222 |
| Weight | 23kg | 23kg | 23kg | 23kg | 23kg |
| Operating temperature range | -25 °C ... +60 °C | -25 °C ... +60 °C | -25 °C ... +60 °C | -25 °C ... +60 °C | -25 °C ... +60 °C |
| Noise emission (typical) | ≤40 dB(A) | ≤40 dB(A) | ≤40 dB(A) | ≤40 dB(A) | ≤40 dB(A) |
| Self-Consumption (night) | <1W | <1W | <1W | <1W | <1W |
| Topology | Transformerless | Transformerless | Transformerless | Transformerless | Transformerless |
| Cooling concept | Smart cooling | Smart cooling | Smart cooling | Smart cooling | Smart cooling |
| Environmental Protection Rating | IP65 | IP65 | IP65 | IP65 | IP65 |
| Altitude | 4000m | 4000m | 4000m | 4000m | 4000m |
| Relative Humidity | 0~100% | 0~100% | 0~100% | 0~100% | 0~100% |
| DC connection | H4/MC4(opt) | H4/MC4(opt) | H4/MC4(opt) | H4/MC4(opt) | H4/MC4(opt) |
| Features | | | | | |
| Display | OLED+LED WIFI+APP | OLED+LED WIFI+APP | OLED+LED WIFI+APP | OLED+LED WIFI+APP | OLED+LED WIFI+APP |
| Interfaces: USB/RS485/WIFI/GPRS/4G | yes/yes/opt/opt/opt | yes/yes/opt/opt/opt | yes/yes/opt/opt/opt | yes/yes/opt/opt/opt | yes/yes/opt/opt/opt |
| CE, EN50549, VDE-AR-N4105, CEI 0-21, CEI 0-16, IEC 62116, IEC 61727, G99, AS4777, C10/11, VDE 0126-1-1, UTE C 15-712, UNE217007, UNE 206007, PO12.2, MEA, PEA | | | | | |