

# MID 25~40KTL3-X

- The maximum efficiency is up to 98.8%
- 40% compact and lighter
- AFCI function optional
- Self-consumption monitoring
- Touch key and OLED display
- Type II SPD on DC and AC side



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



| Datasheet  | MID 25KTL3-X1                                | MID 30KTL3-X | MID 33KTL3-X | MID 36KTL3-X | MID 40KTL3-X |
|--|--|--------------|--------------|--------------|--------------|
| <b>Input data (DC)</b>   |  |              |              |              |              |
| Max. recommended PV power (for module STC)   | 37500W                                       | 45000W       | 49500W       | 54000W       | 60000W       |
| Max. DC voltage  | 1100V  |              |              |              |              |
| Start Voltage  | 250V   |              |              |              |              |
| Normal Voltage   | 600V   |              |              |              |              |
| MPPT voltage range   | 200-1000V                                    |              |              |              |              |
| No. of MPP trackers  | 3  | 3            | 3            | 4            | 4            |
| No. of PV strings per MPP tracker  | 2  |              |              |              |              |
| Max. input current per MPP tracker   | 26A  |              |              |              |              |
| Max. short-circuit current per MPP tracker   | 32A  |              |              |              |              |
| <b>Output data (AC)</b>  |  |              |              |              |              |
| AC nominal power   | 25000W                                       | 30000W       | 33000W       | 36000W       | 40000W       |
| Max. AC apparent power   | 27700VA                                      | 33300VA*     | 36600VA      | 39600VA      | 44000VA      |
| 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  | 40A  | 50.5A        | 55.5A        | 60.0A        | 66.6A        |
| Adjustable power factor  | 0.8leading...0.8lagging                      |              |              |              |              |
| THDI   | <3%  |              |              |              |              |
| AC grid connection type  | 3W+N+PE                                      |              |              |              |              |
| <b>Efficiency</b>  |  |              |              |              |              |
| Max. efficiency  | 98.8%  |              |              |              |              |
| European efficiency  | 98.5%  |              |              |              |              |
| MPPT efficiency  | 99.9%  |              |              |              |              |
| <b>Protection devices</b>  |  |              |              |              |              |
| 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 monitoring  | Optional                                     |              |              |              |              |
| Anti-PID function  | Optional                                     |              |              |              |              |
| AFCI protection  | Optional                                     |              |              |              |              |
| <b>General data</b>  |  |              |              |              |              |
| Dimensions (W / H / D)   | 575/420/225mm                                |              |              |              |              |
| Weight   | 30kg   |              |              |              |              |
| Operating temperature range  | - 35°C ... +60°C                             |              |              |              |              |
| Noise emission (typical)   | ≤50dB(A)                                     |              |              |              |              |
| Nighttime power consumption  | <1W  |              |              |              |              |
| 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: 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, CEI0-16, N4105, TOR Erzeuger, G98/G99, G100, AS/NZS 3100, AS4777, UNE21 7001, UNE206007, PO12.2, KSC8565 |  |              |              |              |              |

\* For Belgium C10/C11 and VDE-AR-N4105, MID 30KTL3-X max. output power is limit to 30KVA.

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