

# MOD 7~15KTL3-X2(Pro)

- Max. efficiency 98.6%
- OLED and Touch button
- Type II SPD on DC and AC side
- String Monitoring
- AFCI optional



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

| Datasheet                                                                     | MOD 7KTL3-X2(Pro)                           | MOD 8KTL3-X2(Pro) | MOD 10KTL3-X2(Pro) | MOD 12KTL3-X2(Pro) | MOD 15KTL3-X2(Pro) |
|-------------------------------------------------------------------------------|---------------------------------------------|-------------------|--------------------|--------------------|--------------------|
| Input data (DC)                                                               |                                             |                   |                    |                    |                    |
| Max. recommended PV power (for module STC)                                    | 10500W                                      | 12000W            | 15000W             | 18000W             | 22500W             |
| Max. DC voltage                                                               | 1100V                                       |                   |                    |                    |                    |
| Start voltage                                                                 | 160V                                        |                   |                    |                    |                    |
| Nominal voltage                                                               | 600V                                        |                   |                    |                    |                    |
| MPPT voltage range                                                            | 140V-1000V                                  |                   |                    |                    |                    |
| No. of MPP trackers                                                           | 2                                           |                   |                    |                    |                    |
| No. of PV strings per MPP tracker                                             | 1                                           |                   |                    |                    |                    |
| Max. input current per MPP tracker                                            | 20A                                         |                   |                    |                    |                    |
| Max. short-circuit current per MPP tracker                                    | 25A                                         |                   |                    |                    |                    |
| Output data (AC)                                                              |                                             |                   |                    |                    |                    |
| AC nominal power                                                              | 7000W                                       | 8000W             | 10000W             | 12000W             | 15000W             |
| Max. AC apparent power                                                        | 7700VA                                      | 8800VA            | 11000VA            | 13200VA            | 16500VA            |
| 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                                                           | 11.7A                                       | 13.3A             | 16A                | 20A                | 25A                |
| Adjustable power factor                                                       | 0.8leading...0.8lagging                     |                   |                    |                    |                    |
| THDi                                                                          | <3%                                         |                   |                    |                    |                    |
| AC grid connection type                                                       | 3W+N+PE                                     |                   |                    |                    |                    |
| Efficiency                                                                    |                                             |                   |                    |                    |                    |
| MAX. efficiency                                                               | 98.6%                                       |                   |                    |                    |                    |
| European efficiency                                                           | 98.1%                                       | 98.1%             | 98.2%              | 98.2%              | 98.2%              |
| MPPT efficiency                                                               | 99.9%                                       |                   |                    |                    |                    |
| Protection devices                                                            |                                             |                   |                    |                    |                    |
| DC reverse polarity protection                                                | 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                                                               | Optional                                    |                   |                    |                    |                    |
| General data                                                                  |                                             |                   |                    |                    |                    |
| Dimensions (W / H / D)                                                        | 425/387/178mm                               |                   |                    |                    |                    |
| Weight                                                                        | 14.6kg                                      | 14.6kg            | 14.6kg             | 15.6kg             | 15.6kg             |
| Operating temperature range                                                   | -25°C ... +60°C                             |                   |                    |                    |                    |
| Nighttime power consumption                                                   | < 1W                                        |                   |                    |                    |                    |
| Topology                                                                      | Transformerless                             |                   |                    |                    |                    |
| Cooling                                                                       | Natural convection                          |                   |                    |                    |                    |
| Protection degree                                                             | IP66                                        |                   |                    |                    |                    |
| Relative humidity                                                             | 0~100%                                      |                   |                    |                    |                    |
| Altitude                                                                      | 4000m                                       |                   |                    |                    |                    |
| DC connection                                                                 | H4/MC4(Optional)                            |                   |                    |                    |                    |
| AC connection                                                                 | Connector                                   |                   |                    |                    |                    |
| Display                                                                       | OLED+LED/WIFI+APP                           |                   |                    |                    |                    |
| Interfaces: USB/RS485/WIFI /GPRS/LAN/RF                                       | Yes/Yes/Optional/Optional/Optional/Optional |                   |                    |                    |                    |
| Warranty: 8 / 10 years                                                        | Yes/Optional                                |                   |                    |                    |                    |
| CE, VDE 0126, EN 50549, IEC 62116, IEC 61727, CEI 0-21, N4105, G98/G99, G100, |                                             |                   |                    |                    |                    |

\* 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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