

# MID 30~50KTL3-X2

- Maximum string input current 16A
- Type II SPD on DC and AC side
- I/V curve scanning
- Intelligent string monitoring
- AFCI function ready



**GROWATT**

[www.ginverter.com](http://www.ginverter.com)

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

preliminary

| Datasheet                                                                                                                                                   | MID 30KTL3-X2                               | MID 33KTL3-X2 | MID 36KTL3-X2 | MID 40KTL3-X2 | MID 50KTL3-X2 |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|---------------|---------------|---------------|---------------|
| Input data (DC)                                                                                                                                             |                                             |               |               |               |               |
| Max. recommended PV power (for module STC)                                                                                                                  | 45000W                                      | 49500W        | 54000W        | 60000W        | 75000W        |
| Max. DC voltage                                                                                                                                             | 1100V                                       |               |               |               |               |
| Start voltage                                                                                                                                               | 200V                                        |               |               |               |               |
| Normal voltage                                                                                                                                              | 600V                                        |               |               |               |               |
| MPPT voltage range                                                                                                                                          | 200-1000V                                   |               |               |               |               |
| No. of MPP trackers                                                                                                                                         | 2                                           | 3             | 3             | 4             | 4             |
| No. of PV strings per MPP tracker                                                                                                                           | 2/3                                         | 2             | 2             | 2             | 2             |
| Max.input current per MPP tracker                                                                                                                           | 32A/48A                                     | 32A           | 32A           | 32A           | 32A           |
| Max. short-circuit current per MPP tracker                                                                                                                  | 40A/60A                                     | 40A           | 40A           | 40A           | 40A           |
| Output data (AC)                                                                                                                                            |                                             |               |               |               |               |
| AC nominal power                                                                                                                                            | 30000W                                      | 33000W        | 36000W        | 40000W        | 50000W        |
| Max. AC apparent power                                                                                                                                      | 33300VA                                     | 36600VA       | 40000VA       | 44400VA       | 55500VA       |
| 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                                                                                                                                         | 50.5A                                       | 55.5A         | 60.6A         | 67.3A         | 84.1A         |
| Adjustable power factor                                                                                                                                     | 0.8leading...0.8lagging                     |               |               |               |               |
| THDi                                                                                                                                                        | <3%                                         |               |               |               |               |
| AC grid connection type                                                                                                                                     | 3W+N+PE                                     |               |               |               |               |
| Efficiency                                                                                                                                                  |                                             |               |               |               |               |
| Max.efficiency                                                                                                                                              | 98.8%                                       |               |               |               |               |
| European efficiency                                                                                                                                         | 98.5%                                       |               |               |               |               |
| MPPT efficiency                                                                                                                                             | 99.9%                                       |               |               |               |               |
| 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 monitoring                                                                                                                                           | Yes                                         |               |               |               |               |
| AFCI protection                                                                                                                                             | Optional                                    |               |               |               |               |
| General data                                                                                                                                                |                                             |               |               |               |               |
| Dimensions (W / H / D)                                                                                                                                      | 528/415/225mm                               | 580/435/230mm | 580/435/230mm | 580/435/230mm | 580/435/230mm |
| Weight                                                                                                                                                      | 24kg                                        | 34kg          | 34kg          | 38kg          | 38kg          |
| Operating temperature range                                                                                                                                 | -25°C ... +60°C                             |               |               |               |               |
| 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, VDE 0126, Greece EN 50549-1, C10/C11, UTE C 15-712, IEC 60068, IEC 61683, CEI 0-21, N 4105, TOR Erzeuger, G98/G99, G100, UNE 217001, UNE 206007, PO12.2 |                                             |               |               |               |               |

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