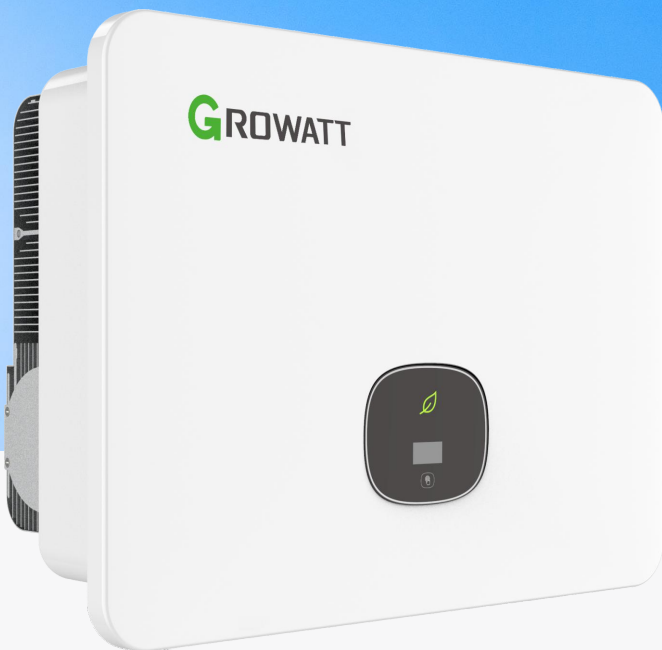


# MID 50KTL3-X2

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



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preliminary

## Input data (DC)

|  |           |
|--|-----------|
| Max. recommended PV power (for module STC) | 75000W    |
| Max. DC voltage                            | 1100V     |
| Start Voltage                              | 200V      |
| Normal Voltage                             | 600V      |
| MPPT voltage range                         | 200-1000V |
| No. of MPP trackers                        | 4         |
| No. of PV strings per MPP tracker          | 2         |
| Max.input current per MPP tracker          | 32A       |
| Max. short-circuit current per MPP tracker | 40A       |

## Output data (AC)

|                            |                                 |
|----------------------------|---------------------------------|
| AC nominal power           | 50000W                          |
| Max. AC apparent power     | 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        | 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)                         | 580/435/230mm                               |
| Weight   | 37kg  |
| 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, VDE0126, Greece, EN50549-1, C10/C11, UTE C 15-712, IEC62116, IEC61727, IEC 60068, IEC 61683, CEI0-21, N4105, TOR Erzeuger, G98/G99, G100, UNE217001, UNE206007, 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.