



- The core technologies are from Germany.
- Wider voltage range, lower starting voltage and higher conversion efficiency (Max efficiency can reach to 97.8%).
- Adap to the complex conditions of roof, improve power generation.



- Aluminum casing, natural cooling, IP65 protection level.
- Adopt internationally famous brand components to ensure the stable operation of inverter.
- Insured by well-known international property insurance company (AIG) for Products /Completed Operations Liability Insurance



- Smart grid adaptive to meet the requirements of various power grid access.
- Variety of monitoring modes: APP (one-button registration), large screen data monitoring center, cloud monitoring platform
- Support RS485,GPRS,WIFI, GPRS200.



- Home appliance design, easy to operation.
- Small in size, light in weight, easy to install.

| | MG3KTL-2M | MG4KTL-2M | MG4K6TL-2M | MG5KTL-2M | MG6KTL-2M |
|--|---|-----------|------------|-----------|-----------|
| Input (DC) | | | | | |
| Max. DC input power (W) | 3600 | 4800 | 5520 | 6000 | 6300 |
| Max. DC input voltage (V) | 600 | | | | |
| Starting voltage (V) / Min. operation voltage (V) | 120/100 | | | | |
| MPPT Range(V) / Rated input voltage(V) | 120-550/360 | | | | |
| Number of MPPT / String per MPPT | 2/1 | | | | |
| Max. DC current (A) Per MPPT x Number of MPPT | 9x2 | 12x2 | 13x2 | 15x2 | 16x2 |
| DC switch | Optional | | | | |
| Output (AC) | | | | | |
| Rated output power (W) | 3000 | 4000 | 4600 | 5000 | 6000 |
| Max. AC output current(A) | 16 | 20 | 22 | 24 | 26 |
| Grid voltage range | 230/180~277V | | | | |
| Grid frequency range | 50Hz(44~55Hz) / 60Hz(54~65Hz) | | | | |
| Power factor | ≥0.99 (at rated power) | | | | |
| THDi | < 3% (at rated power) | | | | |
| AC output | Single-phase(L, N, PE) | | | | |
| System | | | | | |
| Cooling method | Natural cooling | | | | |
| Max. efficiency | 97.70% | 97.70% | 97.70% | 97.80% | 97.80% |
| Euro-efficiency | 96.70% | 96.70% | 96.70% | 96.80% | 96.80% |
| MPPT efficiency | 99.90% | | | | |
| Protection degree | IP65 | | | | |
| Self-consumption(at night) | <1 (W) | | | | |
| Topology | Transformerless | | | | |
| Operating temperature range | -25℃~+60℃(derate after 45℃) | | | | |
| Relative humidity | 0~95%, no condensation | | | | |
| Protection | PV array insulation protection, PV array leakage current protection, Ground fault monitoring,Grid monitoring, Island protection, DC monitoring, Short current protection etc. | | | | |
| Display and communication | | | | | |
| Display | LCD (standard) / LED(optional) | | | | |
| LCD language | English, Chinese, German, Dutch | | | | |
| Communication interface | RS485 (standard) ; WiFi, GPRS200(optional) | | | | |
| Mechanical parameters | | | | | |
| Dimension (H x W x D mm) | 460x360x150 | | | | |
| Weight (kg) | ≤ 18 | | | | |
| Installation | Wall mounting | | | | |
| Others | | | | | |
| DC terminal | Waterproof terminals | | | | |
| Grid qualification | DIN VDE 0126-1-1: 2013, VDE-AR-N 4105: 2011, DIN VDE V 0124-100: 2012, G83-2 :2012, G59/3-2: 2015, IEC 61727(IEC62116) , AS/NZS 4777.2: 2015, NB/T32004-2013, IEC 60068-2-1: 2007, IEC 60068-2-2: 2007, IEC 60068-2-14: 2009, IEC 60068-2-30: 2005, IEC 61683: 1999 | | | | |
| Safe certificates / EMC certificates | IEC 62109-1:2010, IEC 62109-2 : 201, EN 61000-6-2: 2005, EN 61000-6-3:2007/A1:2011 | | | | |
| Factory warranty | 5 years (standard) | | | | |