

iMars MG

Single Phase Grid-tied Solar Inverter

MG3KTL- 2M / 4KTL- 2M / 4K6TL- 2M / 5KTL- 2M / 6KTL- 2M



Monitoring solution:



Handheld HMI



WiFi 200
GPRS 200



PhoneExpert
InfoExpert
Monitoring Center



SysExpert



Efficient

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



Smart

- 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.



Reliable

- 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



Simple

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

Specification

	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(54-66Hz)				
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)				