

Description

MG series single phase inverter is a new generation of PV string inverter which has been developed by INVT for residential users. MG series inverters have the advantages of compact size, light weight, easy installation and maintenance, and are above all cost efficient.

Features

- The core technologies are from Germany.
- Software optimization for the power grid with much wider adaptability.
- Global integrated monitoring and management, supporting all kinds of portable mobile devices, HMI is optional.
- Minimum working voltage is 50V.
- Wider voltage range, lower starting voltage, higher conversion efficiency.
- Designed with latest thermal simulation technology for longer service life.

HMI Features

- Small and exquisite appearance.
- LCD display and easy to operate keyboard with multiple functions.
- Plug & play.



ACT witness Lab certified by TÜV SÜD







G83/G59 C10/11 TF3.2.1 MEA PEA





iMars PhoneExpert (for IOS) iMars PhoneExpert (for Android)

Specification

	MG750TL	MG1KTL	MG1K5TL	MG2KTL	MG3KTL	MG3KTL-2N			
Input (DC)									
Max DC input power (W)	900	1200	1700	2200	3300	3300			
Max DC Voltage (V)	400		450		500	600			
Starting voltage /Min. Operation Voltage (V)	65/60	80/60	100/80		120/100				
Starting Power (W)			3	30					
MPPT Operating Voltage Range (V)	60-350	80-400	100-410	120-410	120-450	120-550			
Number of MPPT/ String Per MPPT	1/1 1/2								
MAX.DC Current (A) Per MPPT x Number of MPPT	10x1	10x1	10x1	13x1	15x1	10x2			
DC Switch	Optional								
Output (AC)									
Max. Power (W)	800	1150	1650	2100	3100	3100			
Max. AC Output Current (A)	3.6	4.5	6.5	9	13	16			
AC Voltage Range Grid Frequency	230/180~277Vac								
	According to VDE-AR-N4105, G83/2, C10/11, TF3.2.1, AS4777/3100, CQC								
	50Hz (44~55Hz) / 60Hz (54~65Hz)								
	According to VDE-AR-N4105, G83/2, C10/11, TF3.2.1, AS4777/3100, CQC								
Power Factor	-0.8~+0.8 (Adjustable)								
THD	< 3% (At Rated Power)								
AC Connection			Single-phas	se (L, N, PE)					
System									
Cooling			Natural	cooling					
Max. Efficiency	96.80%	96.90%	97.20%	97.20%	97.30%	97.90%			
Euro-efficiency	95.95%	96.00%	96.10%	96.10%	96.50%	96.80%			
MPPT Efficiency			99	9%					
Ingress Protection			IP	65					
Consumption At Night			<1	IW					
Isolation Mode			Transfo	rmerless					
Operating Temperature	-25°C∼+60°C, (derate after 45°C)								
Relative Humidity			0~95%, no d	condensation					
Protection	Over voltage protect ; DC insulation monitoring; DC Over current Protection; Grounding fault monitoring; Grid protection; island protection; Overheating protection; Overvoltage and short circuit protection etc.								
Display And Communication									
Display			LED Display (stand	ard) /LCD (Optional)					
System Language	English, Chinese,German, Dutch								
Communication Mode			RS485 (Standard), V	/iFi, Ethernet (Optional)				
Mechanical Parameters									
Diminsion (H x W x D mm)			280x300x138			460x360x160			
Weight (kg)	9.5 17								
Installation			Wall m	ounting					
Others									
DC Terminal			M	C4					
Certifications	VDE-AR-N4105, G83/2, C10/11, TF3.2.1, AS4777/3100, CQC, EN61000-6-1:4, EN61000-3-2:3, EN61000-11:12, IEC 62109-1:2010, LVRT								
Factory Warranty(Years)			5(standard) / 10,	15, 20 (optional)					



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G83/G59 C10/11 TF3.2.1 MEA PEA





iMars PhoneExpert (for IOS)



iMars - MG4~5kw

Specification

	MG4KTL	MG4K6TL	MG5KTL	MG4KTL-2M	MG4K6TL-2M	MG5KTL-2N			
Input (DC)									
Rated DC input power (W)	4000	4600	5000	4000	4600	5000			
Max DC input power (W)	4500	5000	5500	4500	5000	5500			
Starting Power (W)				50					
Staring Voltage /Min. Operation Voltage (V)	120/100								
MPPT Range (V)	120-550								
Number Of MPPT / String Per MPPT		1/2		2/1					
MAX.DC Current (A) Per MPPT x Number of MPPT	19x1	21x1	23x1	12x2	13x2	15x2			
DC Switch	Optional								
Output (AC)									
Rated Power (W)	3680	4200	4600	3680	4200	4600			
Max Power (W)	4000	4600	5000	4000	4600	5000			
Max. AC Output Current (A)	19	21	23	19	21	23			
	230/180~277Vac								
AC Voltage Range	According to VDE-AR-N4105, G83/2, G59/3, AS4777/3100, CQC								
	50Hz (44~55Hz) / 60Hz (54~65Hz)								
Grid Frequency	According to VDE-AR-N4105, G83/2, G59/3, AS4777/3100, CQC								
Power Factor	-0.8~+0.8 (Adjustable)								
THD	< 3% (At Rated Power)								
AC Connection	Single-phase (L, N, PE)								
System			0.1						
Cooling			Natura	l cooling					
Max. Efficiency	97.70%	97.70%	97.80%	97.90%	98.00%	98.00%			
Euro-efficiency	96.50%	96.70%	96.80%	96.80%	96.80%	96.80%			
MPPT Efficiency			9	9%					
Ingress Protection			IF	265					
Consumption At Night			<	1W					
Isolation Mode			Transfo	rmerless					
Operating Temperature			-25℃~+60℃,(derate after 45℃)					
Relative Humidity	0~95%, no condensation								
Protection	Over voltage protect; DC insulation monitoring; DC over current protection; monitoring; Grounding fault monitoring; island protection; Overheating protection; Electronic protection; Overvoltage and short circuit protection etc.								
Display And Communication									
Display			LED Display (stand	ard) / LCD (Optional)					
System Language	English, Chinese, German, Dutch								
Communication Mode	RS485 (Standard), WiFi, Ethernet (Optional)								
Mechanical Parameters									
Diminsion (H x W x D mm)	405x360x150			460x360x150					
Weight (kg)	15			17					
Installation			Wall m	nounting					
Others				<u> </u>					
DC Terminal	BC03A, BC03B (PV-CF-S2, 5-6 (+); PV-CM-S2, 5-6 (-), Helios H4 2.5mm ²)								
	VDE-AR-N4105, G83/2, C10/11, TF3.2.1, AS4777/3100,CQCEN61000-6-1:4, EN61000-3-2:3, EN61000-11:12, IEC 62109-1:2010, LVRT								
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