



Accessoires



WIFI 200
Via RS485 interface



GPRS200
Via RS485 interface



APPs
for ISO and Android



Web monitoring
With INVT Cloud server



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-2M
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Input (DC)

Max DC input power (W)	900	1200	1700	2200	3200	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)	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	2/1
MAX.DC Current (A) Per MPPT x Number of MPPT	10x1	10x1	10x1	13x1	15x1	10x2
DC Switch	Optional					

Output (AC)

Rated Power (W)	750	1000	1500	2000	3000	3000
Max. AC Output Current (A)	3.6	4.5	6.5	9	13	16
AC Voltage Range	230/180~277Vac According to VDE-AR-N4105, G83/2, C10/11, TF3.2.1, AS4777/3100, CQC					
Grid Frequency	50Hz (44~55Hz) / 60Hz (54~65Hz) According to VDE-AR-N4105, G83/2, C10/11, TF3.2.1, AS4777/3100, CQC					
Power Factor	≥0.99 (Adjustable)					
THD	< 3% (At Rated Power)					
AC Connection	Single-phase (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%					
Ingress Protection	IP65					
Consumption At Night	<1W					
Isolation Mode	Transformerless					
Operating Temperature	-25°C ~ +60°C, (derate after 45°C)					
Relative Humidity	0-95%, no 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 (standard) /LCD (Optional)					
System Language	English, Chinese, German, Dutch					
Communication Mode	RS485 (Standard), WIFI, Ethernet (Optional)					

Mechanical Parameters

Diminsion (H x W x D mm)	280x300x138				460x360x160	
Weight (kg)	9.5				17	
Installation	Wall mounting					

Others

DC Terminal	BC03A, BC03B (PV-CF-S2, 5-6 (+); PV-CM-S2, 5-6 (-)...., Helios H4 2.5mm ²)					
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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