

iMars MG Series Single Phase Grid-tied Solar





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

Specification

<u>Specification</u>	
S-MG3 KTL	
Input (DC)	
Max. DC input power	3200 W
Max. DC input power Max. DC voltage	5200 W
	500 V
Starting voltage /Min.	120/100 V
operation voltage	20.14/
Starting power	30 W
MPPT Operating	120-450 V
Voltage Range	
Number of MPPT/	1/2
String Per MPPT	
Max. DC current (A) per	15x1
MPPT x Number of MPPT	0 " 1
DC switch	Optional
Output (AC)	
Rated power	3000 W
Max. AC output current	13 A
	230/180~277 Vac
AC voltage range	According to VDE-AR-N4105, G83/2,
	C10/11, TF3.2.1, AS4777/3100, CQC
	50Hz (44~55Hz) / 60Hz (54~65Hz)
Grid frequency	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	Origie priase (E, 14, 1 E)
	Natural Cooling method
Cooling method	Natural Cooling method
Max. efficiency	97.30%
Euro-efficiency	96.60%
MPPT efficiency	99%
Degree of protection	IP65
Self-consumption (at night)	<1W
Topology	Transformerless
Operating temperature range	25°C~+60°C, (derate after 45°C)
Relative humidity	0~95%, no condensation
	Over voltage protect; DC insulation monitoring; DC Over current Protection; Grounding fault monitoring;
Protection	Grid protection; island protection;
	Overheating protection; Overvoltage and
	short circuit protection etc.
Display and communication	
Display and Communication Display	LED Display (standard) /LCD (Optional)
System language	English, Chinese, German, Dutch
System language	RS485 (Standard), WiFi,
Communication interfaces:	
Machaniaal	Ethernet (Optional)
Mechanical parameters	000 000 100
Dimension (H x W x D mm)	280x300x138 mm.
Weight (kg)	9.5 kg
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
[t\	E (standard) / 10 15 20 (antional)



5 (standard) / 10, 15, 20 (optional)

Factory warranty (years)