



Description

iMars BG three-phase grid-tied solar inverters adopt the latest technologies combination of T type three level topology and SVPWM, providing flexible system configuration and monitoring solutions for household, commercial and power plant systems.

Features

- Dual MPPTs work independently and allow unbalanced input power. One MPPT maximum input is up to 60% of Max.DC power.
- High efficiency and stable performance at entire input voltage and output power range.
- Max. efficiency is up to 98.3%.
- Wide input voltage range gives more possibilities for accepting different string configuration and different type of PV modules.
- Bus capacitors consist of advanced film capacitors, designed with the latest thermal simulation technology for longer lifespan.
- Integrated intelligent DC combiner and surge protection improve system flexibility and lower the cost.
- 5V 200mA auxiliary DC power interface is optional for system expansion.
- AC output power is adjustable between 1-100%.
- Reactive power control and power factor adjustable: 0.8 leading ~ 0.8 lagging.
- RS485, Ethernet, WIFI communication modes are optional for realizing multiple monitoring solutions via PC, mobile phones, internet etc. platforms.



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

	BG12KTR		BG15KTR	BG17KTR
Input (DC)				
Max. DC Voltage (V)	1000			
Staring Voltage /Min. Operation Voltage (V)	200/180			
Starting Power (W)	150			
MPPT Operating Voltage Range (V) / Rated Voltage	180- 800/610V			
Rated Power Voltage Range (V)	350 - 800	400 - 800		400 - 800
Number Of MPPT / String Per MPPT	2/3			
Max. DC Power (W)	12500	15600		17500
Max. DC Current (A) Per MPPT x Number Of MPPT	19x2	21x2		23x2
DC Switch	Integrated			
Output (AC)				
Rated Power (W)	12000	15000		17000
Max. AC Current (A)	20	24		28
Rated AC Voltage And Range	3/PE, 230/400V, (320~460V), 3/PE,220/380V, (320~460V) According to VDE0126-1-1, VDE-AR-N4105, CQC, G59/3,C10/11, AS4777/3100.			
Rated Grid Frequency And Range	50Hz (47~51.5Hz) / 60Hz (57~61.5Hz) According to VDE0126-1-1, VDE-AR-N4105, CQC, G59/3, C10/11, AS4777/3100.			
Power Factor	-0.8~+0.8 (Adjustable)			
THD	< 3% (at rated power)			
AC Connection	Three-phase (L1, L2, L3, PE) or (L1, L2, L3, N, PE)			
System				
Cooling	Smart cooling			
Max. Efficiency	98.20%	98.30%		98.30%
Euro-efficiency	97.60%	97.80%		97.80%
MPPT Efficiency	99.90%			
Ingress Protection	IP65			
Consumption At Night	<0.5W			
Isolation Mode	Transformerless			
Operating Temperature	-25℃ ~+60℃ (derate after 45℃)			
Relative Humidity	0~95%, no condensation			
Protection Functions	DC isolation monitoring, DC monitoring, grounding fault monitoring, grid monitoring, island protection, overvoltage and short circuit protection, etc			
Noise	< 50dB			
Display And Communication				
Display	3.5 inches LCD display, support backlit display			
System Language	English, Chinese, German, Dutch			
Key	Integrated			
Communication Mode	RS485 (Standard),WiFi, Ethernet (Optional)			
Mechanical Parameters				
Dimension (H x W x D mm)	610x480x204			
Weight (kg)	38			
Installation	Wall mounting			
Others				
DC Terminal	MC4			
Certifications	VDE0126-1-1, VDE-AR-N4105, CQC, G59/3, C10/11, AS4777/3100. EN61000-6-1:4, EN61000-11:12, IEC62109-1:2010, PEA, LVRT			
Factory Warranty(Years)	5(standard) / 10, 15, 20 (optional)			



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