



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		
Starting 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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