



Description

iMars BG series three-phase grid-tied solar inverters adopt the latest technologies combination of T type three level topology and SVPWM, provide 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 98.6%.
- 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's 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

	BG20KTR	BG25KTR	BG30KTR	BG40KTR
Input (DC)				
Max. DC Voltage (V)	1000			
Starting Voltage /Min. Operation Voltage (V)	300/280			
Starting Power (W)	30			
MPPT Operating Voltage Range (V) / Rated Voltage	280 - 800/610V			
Rated Power Voltage Range (V)	450 - 800	480 - 800	480 - 800	580 - 800
Number of MPPT / String Per MPPT	2/4			
Max. DC Power (W)	20800	26000	31200	40800
Max. DC Current (A) Per MPPT x Number Of MPPT	25x2	30x2	33x2	33x2
DC Switch	Integrated			
Output (AC)				
Rated Power (W)	20000	25000	30000	40000
Max. AC Current (A)	32	40	48	48
Rated AC Voltage And Range	3/PE, 230/400V (320~460V); 3/PE, 220/380V (320~460V).			3/PE, 277/480V (384~552V)
	According to VDE0126-1-1, VDE-AR-N4105, CQC, G59/3, C10/11, AS4777/3100, PEA			
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, PEA			
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	98.40%	98.40%	98.50%	98.60%
Euro-efficiency	98.00%	98.00%	98.00%	98.20%
MPPT Efficiency	99.9%			
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	DC isolation monitoring, DC monitoring, grounding fault monitoring, grid monitoring, island protection, overvoltage and short circuit protection, etc.			
Noise	< 50dB			< 55dB
Display And Communication				
Display	3.5inches 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)	660x525x250			
Weight (kg)	52			
Installation	Wall mounting			
Others				
DC Terminal	MC4			
Certifications	TUV, CE, VDE0126-1-1, VDE-AR-N4105, G59/3, C10/11, TF3.2.1, AS4777/3100, CQC EN61000-6-1:4, EN61000-11:12, IEC62109-1:2010, PEA, ZVRT, LVRT			
Factory Warranty(Years)	5(standard) / 10, 15, 20 (optional)			



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