



## 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
<b>Input (DC)</b>				
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			
<b>Output (AC)</b>				
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)			
<b>System</b>				
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
<b>Display And Communication</b>				
Display	3.5inches LCD display, support backlit display			
System Language	English, Chinese, German, Dutch			
Key	Integrated			
Communication Mode	RS485 (Standard), WiFi, Ethernet (Optional)			
<b>Mechanical Parameters</b>				
Dimension (H x W x D mm)	660x525x250			
Weight (kg)	52			
Installation	Wall mounting			
<b>Others</b>				
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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