



iMars B Series Three Phase Grid-tied Solar Inverter

Features

- Dual MPPTs work independently and allow unbalance input power. One string 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 capacitor adopts advanced film capacitor,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.
- RS485, Ethernet, WIFI communication modes are optional for realizing multiple monitoring solutions via PC, mobile phones, internet etc. platforms.
- 12V 100mA auxiliary DC power interface is optional for system expansion.
- AC output power is adjustable during 1~100%.
- Reactive power control and power factor adjustable: 0.8 leading ~ 0.8 lagging.



ACT witness Lab certified by TÜV SÜD



G83/G59 C10/11
TF3.2.1 MEA PEA



Specification

	BG6KTR	BG8KTR	BG10KTR	BG12KTR	BG15KTR	BG17KTR
Input (DC)						
Max. DC voltage (V)			1000			
Starting voltage (V)			200			
Min. operation voltage			180			
MPPT operating voltage range (V) /Rated voltage			180- 800/610V			
Rated power voltage range (V)	300 - 800	300 - 800	320 - 800	350 - 800	400 - 800	400 - 800
Number of MPPT/ string per MPPT			2/3 or 2/1 (Integrated Combiner Box)			
Max. DC power (W)	6300	8400	10400	12500	15600	17500
Max. DC current (A) per MPPT x number of MPPT	11x2	14x2	19x2	19x2	21x2	23x2
DC switch			Optional			
Output (AC)						
Rated power (W)	6000	8000	10000	12000	15000	17000
Max. AC current (A)	10	13	16	20	24	28
Rated AC voltage and range			3/N/PE,230/400V, (320~460V) 3/N/PE,220/380V, (320~460V)			
			According to VDE0126-1-1,VDE-AR-N4105,CQC,G59/2,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,G59/2,C10/11, ,AS4777/3100			
Power factor			-0.9~+0.9 (Adjustable)			
THD			< 3% (at rated power)			
AC connection			Three-phase (L1, L2, L3, N, PE)			
System						
Cooling			Smart cooling			
Max.efficiency	97.50%	97.60%	98.20%	98.20%	98.30%	98.30%
Euro-efficiency	97.00%	97.00%	97.60%	97.60%	97.80%	97.80%
MPPT efficiency			99.9%			
Protection degree			IP65			
Consumption at night			<0.5W			
Isolation mode			Transformerless			
Operating temperature			-25 °C ~ +60 °C, derate after 45 °C (-77°F ~ +140°F, derate after 113°F)			
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			3.5inches LCD display, support backlit display			
System language			English, Chinese			
Key			Integrated			
Communication mode			RS485(Standard); WiFi, Ethernet(Optional)			
Mechanical Parameters						
Dimension (H x W x D mm)			480x610x204			
Weight (kg)	<30Kg (66pound)			<35Kg (77pound)		
Installation			Wall mounting			
Others						
DC terminal			SUNCLIX water-proof terminal			
Certifications			VDE0126-1-1,VDE-AR-N4105,CQC,G59/2,C10/11,AS4777/3100. EN61000-6-1:4,EN61000-11:12;IEC62109-1:2010			



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