

iMars BG Series

Three phase Grid-tied Solar inverters for US

BG7KTR-US
BG9KTR-US
BG10KTR-US



Description

iMars BG series three-phase grid-tied solar inverters adopt the latest technologies combination of T Topology 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 98.3%.
- Wide input voltage range gives more possibilities for accepting different string configuration and different Topology 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, GPRS Communication modes are optional for realizing multiple monitoring solutions via local or internet by PC, smart phone, etc.

Specification

	BG7KTR-US	BG9KTR-US	BG10KTR-US
Input (DC)			
Max. DC voltage (V)	1000		
Starting Voltage (V)	200		
Min. Operation Voltage (V)	180		
MPPT Operating Voltage Range (V) / Rated Voltage (V)	180 - 800/610V		
Rated power voltage range (V)	220 - 800	240 - 800	
Number of MPPT / String Per MPPT	2/3		
Max. DC Power (W)	7300	9400	10500
Max. DC Current (A) Per MPPT x Number Of MPPT	19 x 2	21 x 2	23 x 2
DC switch	Integrated		
Output (AC)			
Rated power (W)	7000	9000	10000
Max AC Current (A)	20	25	28
Rated AC Voltage	3/PE, 220V/127V		
Rated Grid frequency	60Hz (57~61.5Hz)		
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 method	Smart Cooling method		
Max efficiency	98.20%	98.30%	98.30%
Euro-efficiency	97.60%	97.80%	97.80%
MPPT efficiency	99.9%		
Protection	IP65		
Self-consumption (at night)	<0.5W		
Topology	Transformerless		
Operating temperature range	-25°C ~ +60°C (derate after 45°C)		
Relative humidity	<50dB		
Protection	DC isolation monitoring, DC monitoring, grounding fault monitoring, grid monitoring, island protection, overvoltage and short circuit protection, etc.		
Display and communication			
Display	3.5inches LCD display, support backlit display		
System language	English, Chinese, German, Dutch		
Communication interfaces:	RS485 (Standard), Ethernet, WiFi (Optional)		
Mechanical parameters			
Dimension (H x W x D mm)	610x480x204		
Weight (kg)	38		
Installation	Wall mounting		
Others			
DC terminal	BC03A, BC03B (PV-FT-CF-C-4-300-BU (-); PV-FT-CM-C-4-300-RD (+), Helios H4 4mm ²)		
Factory warranty (years)	5 (standard) / 10, 15, 20 (optional)		