

iMars BG Series

Three phase Grid-tied Solar inverters for US

BG4KTR-US

BG5KTR-US

BG6KTR-US



Description

BG series three phase inverter is a new generation of PV string inverters which has been developed by INVT for residential and commercial customers. This series adopts the latest technologies and combination of T Topology three level topology with SVPWM. This series also has many outstanding advantages such as compact size, light weight, easy installation and maintenance, and most of all, competitive prices.

It also provides flexible system configuration and monitoring solutions for household and commercial systems.

Features

- The core technologies are from Germany.
- Optimized software for the power grid with much wider adaptability.
- Global integrated monitoring and management system, monitoring APP is available for both Android and iPhone iOS system.
- Much wider operating voltage range, lower starting voltage and higher conversion efficiency.
- simulation technology for a longer service life.

Specification

	BG4KTR-US	BG5KTR-US	BG6KTR-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		
Number of MPPT / String Per MPPT	2/2		
Max. DC Power (W)	4400	5300	6300
Max. DC Current (A) Per MPPT x Number Of MPPT	10 x 2	14 x 2	19 x 2
DC switch	Integrated		
Output (AC)			
Rated power (W)	4000	5000	6000
Max AC Current (A)	12	15	18
Rated AC Voltage (V)	3/PE, 230(220/230V)		
Rated Grid frequency (Hz)	50 (47~ 51.5Hz)		
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	Natural Cooling method	Smart Cooling method	
Max efficiency	97.60%	97.80%	98.20%
Euro-efficiency	97.00%	97.30%	97.60%
MPPT efficiency	99.9%		
Degree of protection	IP65		
Self-consumption (at night)	<1W		
Standard	VDE4105 VDE0126 -1-1 EN50438 EN61000-6-3 EN62109-1:2010		
Operating temperature range	-25℃~+60℃ (derate after 45℃)		
Relative humidity	<30dB	<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)	575x360x150		
Weight (kg)	20	23	
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)		