

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 availalbe for both Android and iPhone iOS system.
- Much wider operating voltage range, lower starting voltage and higher conversion efficiency.
- Designed with latest thermal 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	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	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					
Topology	Transformerless					
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 4mm²)					
Factory warranty (years)	5 (standard) / 10, 15, 20 (optional)					