

Description

BG series three phase inverter is a new generation of PV string inverters which has been developed by INVT for residential and small commercial customers. This series adopts the latest technologies and combination of T type 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.
- Software optimization for the power grid with much wider adaptability.
- Global integrated monitoring and management, supporting all kinds of portable mobile devices, HMI is optional.
- Wider voltage range, lower starting voltage and higher conversion efficiency.
- Designed with latest thermal simulation technology for longer service life.



ACT witness Lab certified by TÜV SÜD







G83/G59 C10/11 TF3.2.1 MEA PEA





iMars PhoneExpert (for IOS) iMars PhoneExper (for Android)

Specification

	BG5KTR	BG6KTR	BG8KTR	BG10KTR
Input (DC)				
Max. DC input power (W)	5200	6300	9000	1000
Max. DC input voltage (V)	900		1000	
Starting voltage /Min. operation voltage (V)	220/180		220/150	
MPPT range(V)	200-800			
Number of MPPT / String per MPPT	2/1			
Max. DC Current (A) Per MPPT x Number of MPPT	10x2	10x2	12x2	12.5x2
DC switch	Optional			
Output (AC)				
Rated output power (W)	5000	6000	8000	9500
Max. AC output current⊠A)	8	9.6	12.5	14
Grid voltage range	3/PE, 230/400V, (320~460V);3/PE,220/380V,(320~460V)			
Grid frequency range	50Hz(47~51.5Hz) / 60Hz(57~61.5Hz)			
Power factor	-0.8~+0.8 (Adjustable)			
THDi	< 3% (at rated power)			
AC output	Three-phase (L1, L2, L3, PE) or (L1, L2, L3, N, PE)			
System				
Cooling method	Natural cooling method		Smart Cooling method	
Max efficiency	98.10%	98.20%	98.30%	98.30%
Euro-efficiency	97.60%	97.70%	97.80%	97.80%
MPPT efficiency	99.9%			
Protection rating	IP65			
Self-consumption (at night)	<0.5			
Topology	Transformerless			
Operating temperature range	-25℃~+60℃ (derate after 45℃)			
Relative humidity	0~95%, no condensation			
Protection	PV array insulation protection, PV array leakage current protection, Ground fault monitoring, Grid monitoring, Island protection, DC monitoring, Short current protection etc.			
Noise(dB)	< 30 < 50			
Display and communication				
Display	2.0 inches LCD display, support backlit display			
LCD language	English, Chinese, German, Dutch			
Keyboard	Integrated			
Communication interfaces:	RS485 (Standard), WiFi, Ethernet (Optional)			
Mechanical parameters				
Dimension (H x W x D mm)	530x360x150		575x360x150	
Weight (kg)	22		25	25
Installation	Wall mounting			
Others				
DC terminal	MC4			
Grid standard	IEC 61727(IEC62116), IEC 60068-2-1: 2007, IEC 60068-2-2: 2007, IEC 60068-2-14: 2009, IEC 60068-2-30: 2005, IEC 61683: 1999, VDE0126-1-1, VDE-AR-N4105, G59/3, C10/11, AS/NZS 4777.2:2015, NB/T 32004-2013, PEA, ZVR			
Safe certificate /EMC category	IEC 62109-1: 2010, IEC 62109-2: 2011, EN 61000-6-2: 2005, EN 61000-6-3:2007/A1:2011			
Factory warranty (years)	5			



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