

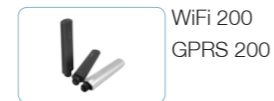
iMars BG

Three phase Grid-tied Solar inverters for US

BG4KTR-US / 5KTR-US / 6KTR-US



Monitoring solution:

WiFi 200
GPRS 200

SysExpert

PhoneExpert
InfoExpert
Monitoring Center

Efficient

- The core technologies are from Germany.
- Wider voltage range, lower starting voltage and higher conversion efficiency (Max efficiency can be reach to 98.3%).
- Two MPPT, adapt to the complex environment of roof, improve power generation.
- Adopt the latest technologies and combination of T-type three level topologies and SVPWM.



Smart

- Smart grid adaptive to meet the requirements of various power grid accesses.
- Variety of monitoring modes: APP (one-button registration), large screen data monitoring center, cloud monitoring platform.
- Support RS485,GPRS,WIFI, GPRS200.



Reliable

- Aluminum casing, natural cooling, IP65 protection level.
- Adopt internationally famous brand components to ensure the stable operation of inverter.
- Insured by well-known international property insurance company (AIG) for Products /Completed Operations Liability Insurance



Simple

- Home appliance design, easy to operation.
- Small in size, light in weight, easy to install.

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 input 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	Smart cooling	
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)	<1(W)		
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), GPRS200, WiFi (Optional)		
Mechanical parameters			
Dimension (H x W x D mm)	530x360x150		
Weight (kg)	20		
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)		

iMars BG

Three phase Grid-tied Solar inverters for US

BG7KTR-US / 9KTR-US / 10KTR-US
BG12KTR-US / 15KTR-US / 17KTR-US



Monitoring solution:



WiFi 200
GPRS 200



SysExpert



PhoneExpert
InfoExpert
Monitoring Center



Efficient

- Integrated intelligent DC combiner and surge protection improve system flexibility and lower the system cost.
- Max efficiency is up to 98.3%, wide input voltage range, adapt to all kinds of solar panels and string configuration.
- Dual MPPT work independently and allow unbalanced input power. One MPPT maximum input is up to 60% of Max. DC power.
- Adopt the latest technologies and combination of T-type three level topologies and SVPWM.



Smart

- AC output power is adjustable between 1-100%.
- Smart grid adaptive to meet the requirements of various power grid accesses.
- Variety of monitoring modes: APP (one-button registration), large screen data monitoring center, cloud monitoring platform.
- Support RS485, GPRS, WIFI, GPRS200.



Reliable

- IP65 protection level, suitable for various installation environments.
- Bus capacitors consist of advanced film capacitors, designed with the latest thermal simulation technology for longer lifespan.
- Insured by well-known international property insurance company (AIG) for Products /Completed Operations Liability Insurance.



Simple

- High power density, small size.
- Modular design, easy to maintain.

Specification

	BG7KTR-US	BG9KTR-US	BG10KTR-US	BG12KTR-US	BG15KTR-US	BG17KTR-US
Input (DC)						
Max. DC voltage (V)	1000					
Starting Voltage (V)	200					
Min. Operation Voltage (V)	180			280		
MPPT Operating Voltage Range (V) / Rated input voltage(V)	180-800/610V			280-800/610V		
Rated power voltage range (V)	220 - 800	240 - 800		320 - 800		
Number of MPPT / String Per MPPT	2/3			2/4		
Max. DC Power (W)	7300	9400	10500	12400	15400	17400
Max. DC Current (A) Per MPPT x Number Of MPPT	19 x 2	21 x 2	23 x 2	25 x 2	30 x 2	33 x 2
DC switch	Integrated					
Output (AC)						
Rated power (W)	7000	9000	10000	12000	15000	17000
Max AC Current (A)	20	25	28	34	42	48
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					
Max efficiency	98.20%	98.30%	98.30%	98.30%	98.30%	98.40%
Euro-efficiency	97.60%	97.80%	97.80%	97.80%	97.80%	98.00%
MPPT efficiency	99.9%					
Protection	IP65					
Self-consumption (at night)	<0.5(W)			<1(W)		
Topology	Transformerless					
Operating temperature range	-25℃~+60℃ (derate after 45℃)					
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), GPRS200, WiFi (Optional)					
Mechanical parameters						
Dimension (H x W x D mm)	610x480x230			660x525x220		
Weight (kg)	38			52		
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)					