

## iMars BG Series Three Phase Grid-tied Solar Inverter





## 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 98.6%.
- 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's 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

<u>Specification</u>	
	S-BG30KTR
Input (DC)	1000 V
Max. DC voltage Starting voltage /Min.	1000 V
operation voltage	300/280 V
Starting power	150 W
MPPT operating voltage	
range / Rated voltage	200-800 / 610 V
Rated power voltage range	480-800 V
Number of MPPT/	2/3
String Per MPPT	2/3
Max. DC Power	31200 W
Max. DC Current Per	33 x 2
MPPT x Number of MPPT	I of the second
DC switch	Integrated
Output (AC)	20000 W
Rated power Max. AC Current	30000 W 48 A
IVIAA. / 10 OUITEIIL	3/PE, 230/400V (320~460V);
	3/PE, 220/380V (320~460V),
Rated. AC voltage range/	·
Rated Grid frequency And	50Hz (47~51.5Hz) / 60Hz (57~61.5Hz)
Range	According to VDE0126-1-1, VDE-AR-N4105,
	CQC, G59/3, C10/11, AS4777/3100, PEA
Power factor	-0.8~+0.8 (Adjustable)
THD	< 3% (At Rated Power)
A.O	Three-phase
AC connection	(L1, L2, L3, PE) or (L1, L2, L3, N, PE)
System	
Cooling method	Smart Cooling method
Max. efficiency	98.50%
Euro-efficiency	98.00%
MPPT efficiency	99.9%
Degree of protection	IP65
Self-consumption (at night)	<0.5 W
Topology	Transformerless 4500
Operating temperature range	-25°C~+60°C, (derate after 45°C)
Relative humidity	0~95%, no condensation
	DC isolation monitoring, DC monitoring, grounding fault monitoring, grid monitoring,
Protection	island protection, overvoltage and short
	circuit protection, etc.
Noise	< 50dB
Display and communication	
Display	3.5" LCD display, support backlit display
System language	English, Chinese, German, Dutch
Key	Integrated
Communication interfaces:	RS485 (Standard),
	WiFi, Ethernet (Optional)
Mechanical parameters	000 505 050
Dimension (H x W x D)	660x525x250 mm.
Weight (kg)	52 kg
Installation	Wall mounting
Others	BC03A, BC03B ( PV-FT-CF-C-4-300-BU (-);
DC terminal	PV-FT-CM-C-4-300-RD (+), Helios H4 4mm <sup>2</sup> )
	TUV, CE, VDE0126-1-1, VDE-AR-N4105,
0-4:6-4:	G59/3,C10/11, TF3.2.1, AS4777/3100,CQC
Certifications	EN61000-6-1:4, EN61000-11:12, IEC62109-
	1:2010, PEA,ZVRT,LVRT
Factory warranty (years)	5 (standard) / 10, 15, 20 (optional)

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