

# iMars Series Grid-tied Solar Inverters



## Accessoires



WiFi 200 / GPRS  
Via RS485 interface



Data Webbox  
Support up to 16 inverters



APPs  
for ISO and Android



Web monitoring  
With INVT Cloud server

## Description

iMars BG series three-phase grid-tied solar inverters adopt the latest technologies combination of T type three level topology and SVPWM, provide flexible system configuration and monitoring solutions for household, commercial and power plant systems.

## Features

- 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 type 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 communication modes are optional for realizing multiple monitoring solutions via PC, mobile phones, internet etc. platforms.



ACT witness Lab certified by TÜV SÜD



**G83/G59 C10/11  
TF3.2.1 MEA PEA**



iMars PhoneExpert  
(for IOS)



iMars PhoneExpert  
(for Android)

# Specification

	BG20KTR-US	BG25KTR-US	BG30KTR-US
<b>Input (DC)</b>			
Max. DC voltage (V)	1100	1100	
Starting voltage /Min. operation voltage (V)	200/620		
Starting power (W)	150		
MPPT Operating Voltage Range (V) / Rated Voltage	570-950/740		
Rated power voltage range (V)	600 – 850	600-850	
Number of MPPT / String Per MPPT	1/10	1/10	1/14
Max. DC Power (W)	20400	26000	33000
Max. DC Current (A) Per MPPT x Number Of MPPT	74x1	90x1	120x1
DC switch	Integrated		
<b>Output (AC)</b>			
Rated power (W)	20000	25000	30000
Max AC Current (A)	63.5	80	96
Rated AC Voltage And Range	3/PE,230/127V	3/N/PE,230/127V	3/N/PE,230/127V
Rated Grid frequency And Range	50Hz (47~51.5Hz) / 60Hz (57~61.5Hz) According to VDE0126-1-1, VDE-AR-N4105, CQC, G59/3, C10/11, AS/NZS 4777.2:2015, PEA		
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); Support Delta, open Delta and star connection of three phase		
<b>System</b>			
Cooling method	Smart Cooling method		
Max efficiency	98.90%	98.90%	
Euro-efficiency	98.50%	98.50%	
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	0~95%, no condensation		
Protection	DC isolation monitoring, DC monitoring, grounding fault monitoring, grid monitoring, island protection, overvoltage and short circuit protection, etc.		
Noise	< 55dB		
<b>Display and communication</b>			
Display	3.5inches LCD display, support backlit display		
System language	English, Chinese, German, Dutch		
Key	Integrated		
Communication interfaces:	RS485 (Standard), WiFi, Ethernet (Optional)		
<b>Mechanical parameters</b>			
Dimension (H x W x D mm)	810x645x235	810x645x235	
Weight (kg)	52	62	
Installation	Wall mounting		
<b>Others</b>			
DC terminal	BC03A, BC03B ( PV-FT-CF-C-4-300-BU (-); PV-FT-CM-C-4-300-RD (+), Helios H4 4mm <sup>2</sup> )		
Certifications	TUV, CE, VDE0126-1-1, VDE-AR-N4105, G59/3,C10/11, TF3.2.1, AS/NZS 4777.2:2015,CQC EN61000-6-1:4, EN61000-11:12, IEC62109-1:2010, PEA,ZVRT,LVRT		
Factory warranty (years)	5 (standard) / 10, 15, 20 (optional)		

