iMars Series

Grid-tied Solar Inverter Catalog

Powered by Solar









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Introduction

PV business is the most important part of INVT electric power products and service, which is committed to provide the most stable solar inverters to the world.

Based on the understanding of development and the requirements of solar grid-tied power generation system and following the stable, high efficient and maintenance-free product design concept, accumulated 14 years of R&D and application experience in the field of core inverter and control technology, INVT is extending its PV business and has launched the iMars series of grid-tied solar inverters successfully.

iMars series grid-tied solar inverters have a better performance on the aspect of product stability, efficient power transformation, low harmonics, safe power grid access and so on. They can be widely used in BIPV (house roof, office building roof and factory roof), BAPV (integrated residential buildings), commercial rooftop plants and on ground solar power plants, to provide customers with stable, safe and efficient renewable energy.

Up to now, INVT solar inverters have been widely used by over 200,000 happy customers in more than 60 countries.

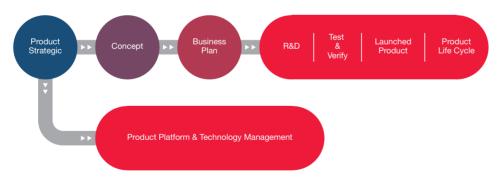


Partners

How We Make the Differences

Reliable Product Design

- Experienced R&D team
- Professional Products R&D Process



- All components are verified by strict tests and key components supplied by international top brands
- Heat dissipation performance is ensured by system level thermal simulation for long service life
- 6 laboratory validations: device test, safety test, EMC test, functional performance test, environmental test and reliability test

































Strict Product Quality Control

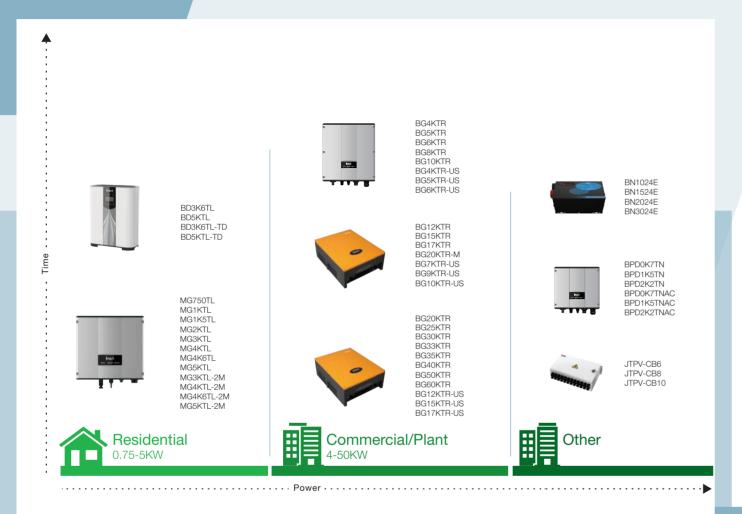
- More than 14 years mature experience of manufacturing processes
- Integrated supply chain, comprehensive quality management system, efficient operation and lean production
- 9 steps of inspections and tests during production process

Guaranteed Usage

- All solar products have CHUBB products liability and product defects insurance
- 7×24 service
- 24 hours quick response

Product Family

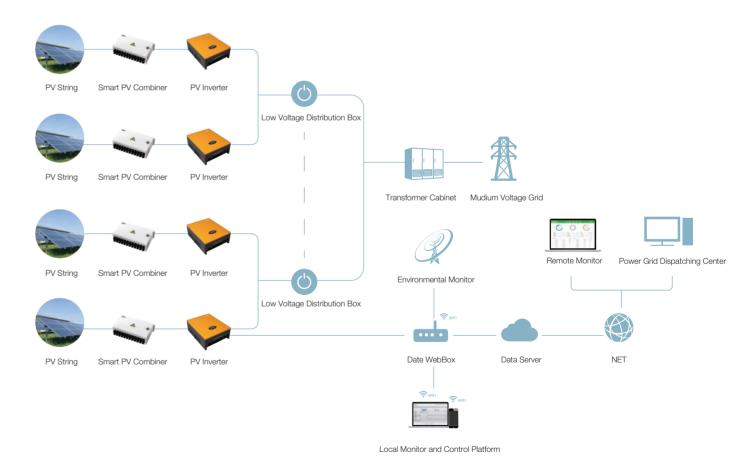
iMars Inverter



Monitoring Products



Solution for PV Plant

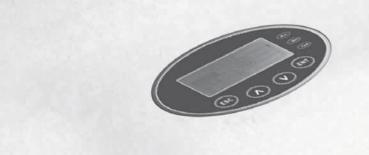


Product Catalog

Model	Max. DC Voltage (V)	Max Input Current (A)	Max. DC Input Power (W)	Rated DC Voltage (V)	MPPT
MG750TL	400	10x1	900	300	1
MG1KTL		10x1	1200		1
MG1K5TL	450	10x1	1700	360	1
MG2KTL		13x1	2200		1
MG3KTL	500	15x1	3200		1
MG4KTL		18x1	4600		2
MG4K6TL		18x1	5000		1
MG5KTL		20x1	5500	000	1
MG3KTL-2M	600	10x2	3300	360	1
MG4KTL-2M		10x2	4600		2
MG4K6TL-2M		11x2	5000		2
MG5KTL-2M		12x2	5500		2
BG4KTR		10x2	4200		2
BG5KTR	900	10x2	5200	580	2
BG6KTR		10x2	6300		2
BG8KTR		14x2	8400		2
BG10KTR		19x2	10400		2
BG12KTR		19x2	12500		2
BG15KTR		21x2	15600		2
BG17KTR		23x2	17500		2
BG20KTR-M	1000	25x2	20800		2
BG20KTR	1000	25x2	20800	610	2
BG25KTR		30x2	26000		2
BG30KTR		33x2	31200		2
BG33KTR		33x2	36000		2
BG35KTR		33x2	38000		2
BG40KTR		33x2	42800		2
BG50KTR	4400	42x2	53400		2
BG60KTR	1100	42x2	66000		2
BD3K6TL			5200		2
BD5KTL	500	40.0	6600	000	2
BD3K6TL-TD	500	16x2	5200	380	2
BD5KTL-TD			6600		2

iMars MG Series Single Phase Grid-tied Solar Inverters

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iMars MG Series Single Phase Grid-tied Solar Inverter



Description

MG series single phase inverter is a new generation of PV string inverter which has been developed by INVT for residential users. MG series inverters have the advantages of compact size, light weight, easy installation and maintenance, and are above all cost efficient.

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.
- Minimum working voltage is 50V.
- Wider voltage range, lower starting voltage, higher conversion efficiency.

Designed with latest thermal simulation technology for longer service life.

HMI Features

- Small and exquisite appearance.
- LCD display and easy to operate keyboard with multiple functions.
- Plug & play.

Specification

	MG750TL	MG1KTL	MG1K5TL	MG2KTL	MG3KTL	MG3KTL-2N	
Input (DC)							
Max. DC input power (W)	900	1200	1700	2200	3200	3300	
Max. DC voltage (V)	400		450		500	600	
Starting voltage /Min. operation voltage (V)	65/60	65/60 80/60 100/80 120/100					
Starting power (W)			3	0			
MPPT Operating Voltage Range (V)	60-350	60-350 80-400 100-410 120-410 120-450					
Number of MPPT/ String Per MPPT		1	1/1		1/2	2/1	
Max. DC current (A) per MPPT x Number of MPPT	10x1	10x1	10x1	13x1	15x1	10x2	
DC switch			Opti	onal			
Output (AC)							
Rated power (W)	750	1000	1500	2000	3000	3000	
Max. AC output current (A)	3.6	4.5	6.5	9	13	16	
AC voltage range			230/180	~277Vac			
AO voitage range	According to VDE-AR-N4105, G83/2, C10/11, TF3.2.1, AS4777/3100, CQC						
Grid frequency	50Hz (44~55Hz) / 60Hz (54~65Hz) According to VDE-AR-N4105, G83/2, C10/11, TF3.2.1, AS4777/3100, CQC						
Power factor	≥0.99 (Adjustable)						
THD	< 3% (At Rated Power)						
AC connection			Single-phas	e (L, N, PE)			
System			0 1	, , ,			
Cooling method			Natural Coo	ling method			
Max. efficiency	96.80%	96.90%	97.20%	97.20%	97.30%	97.90%	
Euro-efficiency	95.95%	96.00%	96.10%	96.10%	96.50%	96.80%	
MPPT efficiency			99	%			
Degree of protection			IPe				
Self-consumption (at night)	<1W						
Topology			Transfor	merless			
Operating temperature range			-25℃~+60℃, (d	erate after 45°C)			
Relative humidity			0~95%, no c	condensation			
Protection			sulation monitoring; DC ction; Overheating prote			-	
Display and communication							
Display			LED Display (standa	ard) /LCD (Optional)			
System language			English, Chinese	,German, Dutch			
Communication interfaces:	RS485 (Standard), WiFi, Ethernet (Optional)						
Mechanical parameters							
Dimension (H x W x D mm)	280x300x138 460x360x1						
Weight (kg)	9.5						
Installation	Wall mounting						
Others							
DC terminal		BC03A, BC03B (PV-CF-S2, 5-6 (+);	PV-CM-S2, 5-6 (-), H	Helios H4 2.5mm²)		
Certifications			G83/2, C10/11, TF3.2.				
Factory warranty (years)			5 (standard) / 10,	15, 20 (optional)			



iMars MG Series Single Phase Grid-tied Solar Inverter



Description

MG series single phase inverter is a new generation of PV string inverter which has been developed by INVT for residential users. MG series inverters have the advantages of compact size, light weight, easy installation and maintenance, and are above all cost efficient.

Features

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- Global integrated monitoring and management, supporting all kinds of portable mobile devices. HMI is optional.
- Wider voltage range, lower starting voltage, higher conversion efficiency.
- Designed with latest thermal simulation technology for longer service life.

HMI Features

- Small and exquisite appearance.
- LCD display and easy to operate keyboard with multiple functions.
- Plug & play.

Specification

Specification								
	MG4KTL	MG4K6TL	MG5KTL	MG4KTL-2M	MG4K6TL-2M	MG5KTL-2M		
Input (DC)								
Rated DC input power (W)	4000	4600	5000	4000	4600	5000		
Max. DC input power (W)	4500	5000	5500	4500	5000	5500		
Starting power (W)		50						
Starting voltage /Min. operation voltage (V)	120/100							
MPPT range (V)			120-	-550				
Number of MPPT / String per MPPT		1/2			2/1			
Max. DC current (A) per MPPT x Number of MPPT	18x1	18x1	20x1	10x2	11x2	12x2		
DC switch			Opt	ional				
Output (AC)								
Rated power (W)	3680	4200	4600	3680	4200	4600		
Max power (W)	4000	4600	5000	4000	4600	5000		
Max. AC output current (A)	19	21	23	19	21	23		
AO			230/180	~277Vac				
AC voltage range	According to VDE-AR-N4105, G83/2, G59/3, AS4777/3100, CQC							
Crid fraguanay	50Hz (44~55Hz) / 60Hz (54~65Hz)							
Grid frequency	According to VDE-AR-N4105, G83/2, G59/3, AS4777/3100, CQC							
Power factor	≥0.99 (Adjustable)							
THD	< 3% (At Rated Power)							
AC connection			Single-phas	se (L, N, PE)				
System								
Cooling method			Natural Coo	oling method				
Max. efficiency	97.70%	97.70%	97.80%	97.90%	98.00%	98.00%		
Euro-efficiency	96.50%	96.70%	96.80%	96.80%	96.80%	96.80%		
MPPT efficiency			99	9%				
Degree of protection	IP65							
Self-consumption (at night)	<1W							
Topology			Transfor	rmerless				
Operating temperature range			-25℃~+60℃, (0	derate after 45℃)				
Relative humidity			0~95%, no d	condensation				
Protection					nitoring; Grounding fau and short circuit prote			
Display and communication								
Display			LED Display (standa	ard) / LCD (Optional)				
System language	English, Chinese, German, Dutch							
Communication interfaces:	RS485 (Standard), WiFi, Ethernet (Optional)							
Mechanical parameters								
Dimension (H x W x D mm)	405x360x150 460x360x150							
Weight (kg)		15			17			
Installation			Wall m	ounting				
Others								
DC terminal		BC03A, BC03B (I	PV-CF-S2, 5-6 (+);	PV-CM-S2, 5-6 (-), F	Helios H4 2.5mm²)			
Certifications			G83/2, C10/11, TF3.2 00-3-2:3, EN61000-1					
Factory warranty (years)			5 (standard) / 10	, 15, 20 (optional)				

iMars BG Series

Three Phase Grid-tied Solar Inverter

BG4KTR BG5KTR

BG6KTR

BG8KTR

BG10KTR







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 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.
- 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.

Specification

	BG4KTR	BG5KTR	BG6KTR	BG8KTR	BG10KTR	
nput (DC)			,			
Max. DC voltage (V)	900					
Starting voltage /Min. operation voltage (V)			220/180			
Starting power (W)			150			
MPPT operating voltage range / Rated voltage (V)			200-800/580			
Rated power voltage range (V)	210-800	260-800	300-800	400-800	450 - 800	
Number of MPPT / String per MPPT			2/2			
Max. DC Power (W)	4200	5200	6200	8300	10400	
Max. DC Current (A) Per MPPT	10x2	10x2	10x2	12x2	12x2	
OC switch			Integrated			
Output (AC)						
Rated power (W)	4000	5000	6000	8000	10000	
Max. AC Current (A)	7	8.5	10	13	15	
Rated. AC voltage range	Ac	,	(320~460V) ;3/PE,220/380 VDE-AR-N4105, CQC, G83	'	00.	
Grid frequency	50Hz (47~51.5Hz) / 60Hz (57~61.5Hz) According to VDE0126-1-1, VDE-AR-N4105, CQC, G83/2,C10/11, AS4777/3100.					
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			
Max efficiency	98.10%	98.10%	98.20%	98.20%	98.20%	
Euro-efficiency	97.50%	97.60%	97.70%	97.70%	97.70%	
MPPT efficiency			99.9%			
Degree of protection			IP65			
Self-consumption (at night)			<0.5W			
Topology		0.51	Transformerless	2)		
Operating temperature range			°C~+60°C (derate after 45°C	۵)		
Relative humidity	DO1 1 11		0~95%, no condensation			
Protection	DC Isolation mon	0.0	nitoring, island protection, o			
Noise		< 30dB		< 5	0dB	
Display and communication		0.1 inches	LCD diaplay as part book	it diaples		
Display			LCD display, support backl	, ,		
System language	English, Chinese, German, Dutch RS485 (Standard), WiFi, Ethernet (Optional)					
Communication interfaces:		H5485 (S	tandard), WIFI, Ethernet (O	ptional)		
Mechanical parameters	530v360v150 575v390v450					
Dimension (H x W x D mm)	530x360x150 575x360x150 20 23					
Weight (kg)	20 23 Wall mounting					
Others			vvaii i i i oui i i i i g			
Others OC terminal	D000	A RC03R / DV ET CE C 4	300-BLL(-)- DV ET CM C 4	-300-RD (1) Holios H4 (1mm2 \	
oc terminal	BC03/	•	300-BU (-); PV-FT-CM-C-4		+11111111111111111111111111111111111111	
Certifications	VDE0126-1-1, VDE-AR-N4105, G59/3, C10/11, AS4777/3100, CQC EN61000-6-1:4, EN61000-11:12, IEC62109-1:2010, PEA, LVRT					

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iMars BG Series Three Phase Grid-tied Solar Inverter

BG12KTR BG15KTR BG17KTR BG20KTR-M



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 98.3%.
- 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 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.

	BG12KTR	BG15KTR	BG17KTR	BG20KTR-M		
nput (DC)						
Max. DC voltage (V)		10	000			
Starting voltage /Min. operation voltage (V)		200/180		300/200		
Starting power (W)		1:	50			
MPPT Operating Voltage Range V) / Rated Voltage		180- 800/610V		280- 800/610V		
Rated power voltage range (V)	350 - 800	400 - 800	400 - 800	450-800		
Number Of MPPT / String Per MPPT		2	//2			
Max. DC Power (W)	12500	15600	17500	20800		
Max. DC Current (A) Per MPPT x Number Of MPPT	19x2	21x2	23x2	25x2		
DC switch		Integ	grated			
Output (AC)						
Rated power (W)	12000	15000	17000	20000		
Max AC Current (A)	20	24	28	32		
		3/PE, 230/400V, (320~460V)), 3/PE,220/380V, (320~460V)			
Rated AC Voltage And Range/ Rated Grid frequency And Range	50Hz (47~51.5Hz) / 60Hz (57~61.5Hz)					
and hogonay rina hango	According	g to VDE0126-1-1, VDE-AR-N41	105, CQC, G59/3, C10/11, AS47	77/3100.		
Power factor		-0.8~+0.8	(Adjustable)			
'HD	< 3% (at rated power)					
AC connection	Three-phase (L1, L2, L3, PE) or (L1, L2, L3, N, PE)					
System						
Cooling method		Smart Coo	ling method			
Max efficiency	98.20%	98.30%	98.30%	98.40%		
Euro-efficiency	97.60%	97.80%	97.80%	98.00%		
MPPT efficiency		99.9	90%			
Degree of protection		IP	P65			
Self-consumption (at night)		<0.	.5W			
opology		Transfo	rmerless			
Operating temperature range		-25°C~+60°C (d	lerate after 45°C)			
Relative humidity		0~95%, no	condensation			
Protection Functions	DC isolati		grounding fault monitoring, grid me and short circuit protection, etc	onitoring,		
Noise		< 5	0dB			
Display and communication						
Display		3.5 inches LCD display	, support backlit display			
System language		English, Chinese	e, German, Dutch			
Key		Integ	grated			
Communication interfaces:		RS485 (Standard),Wi	iFi, Ethernet (Optional)			
Mechanical parameters						
Dimension (H x W x D mm)	610x480x204					
Veight (kg)	38					
nstallation	Wall mounting					
Others						
OC terminal	BC03A, BC0	03B (PV-FT-CF-C-4-300-BU (-);	PV-FT-CM-C-4-300-RD (+), Helio	s H4 4mm²)		
Certifications			QC, G59/3, C10/11, AS4777/310 2, IEC62109-1:2010, PEA, LVRT	00.		

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iMars BG Series Three Phase Grid-tied Solar Inverter

BG25KTR BG30KTR

BG20KTR

BG33KTR BG35KTR

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.

BigSOKTR	pecification							
Starting yolfage AMN. operation Starting yolfage AMN. operation Starting yolfage AMN. operation Starting yolfage AMN. operation Starting prower (W)		BG20KTR	BG25KTR	BG30KTR	BG33KTR	BG35KTR		
Surfing power (W)	Input (DC)							
Surfing power (W)	Max. DC voltage (V)	1000						
MPFT Charactery Cottage Range 280 - 800/610V Marked Voltage Range (V) / Rated Voltage Range (V) 450 - 800 480 - 800 480 - 800 500-800 500-800 550-800 Number of MPPT 2/3 2/4	Starting voltage /Min. operation			300/280				
Marcher of Noting	Starting power (W)			150				
Number of MPPT / String Pic MPPT 2/3 2/4	MPPT Operating Voltage Range			280 - 800/610V				
String Per MPPT	Rated power voltage range (V)	450 - 800	480 - 800	480 - 800	500-800	550-800		
Max. DC Current (A) Per MPPT 25x2 30x2 33x2 33x2 33x2 33x2 33x2 20 20 20 20 20 20 20			2/3		2	/4		
Number Of MPPT 2002 3002 3002 3002 3002 3002 3000 300000 300000 300000 300000 300000 300000 300000 300000 300000 300000 300000 300000 3000000 30000000 300000000	Max. DC Power (W)	20800	26000	31200	36000	38000		
Dutput (AC) Reted power (W) 20000 25000 30000 33000 35000 35000 Max AC Current (A) 32 40 48 48 48 48 48 48 48		25x2	30x2	33x2	33x2	33x2		
Rated power (W) 20000 25000 30000 33000 35000 35000 Max AC Current (A) 32 40 48 48 48 48 48 48 48	DC switch			Integrated				
Max AC Current (A) 32 40 48 48 48 48 48 A8 A8 A8	Output (AC)							
Rated AC Voltage And Range/ Rated Grid frequency And Range S/PE, 230/400V (320-460V); 3/PE, 220/380V (320-460V); 3/PE, 243/400V (357-483V) Range Solhz (47-51,5Hz) / 60Hz (57-61,5Hz) / 60Hz (57-61,5Hz) According to VDE0126-1-1, VDE-AR-N4105, COZ, GS9/3, C10/11, AS4777/3100, PEA According to VDE0126-1-1, VDE-AR-N4105, COZ, GS9/3, C10/11, AS4777/3100, PEA According to VDE0126-1-1, VDE-AR-N4105, COZ, GS9/3, C10/11, AS4777/3100, PEA According to VDE0126-1-1, VDE-AR-N4105, COZ, GS9/3, C10/11, AS4777/3100, PEA According to VDE0126-1-1, VDE-AR-N4105, COZ, GS9/3, C10/11, AS4777/3100, PEA According to VDE0126-1-1, VDE-AR-N4105, COZ, GS9/3, C10/11, AS4777/3100, PEA According to VDE0126-1-1, VDE-AR-N4105, COZ, GS9/3, C10/11, AS4777/3100, PEA According to VDE0126-1-1, VDE-AR-N4105, CS9/3, C10/11, AS4777/3100, PEA According to VDE0126-1-1, VDE-AR-N4105, CS9/3, C10/11, AS4777/3100, COZ According to VDE0126-1-1, VDE-AR-N4105, CS9/3, C10/11, AS4777/3100, COZ According to VDE0126-1-1, VDE-AR-N4105, CS9/3, C10/11, AS4777/3100, COZ According to VDE0126-1-1, VDE-AR-N4105, CS9/3, C10/11, TT3, 2.1, AS4777/3100, COZ EN51000-6-1-4, EN51000-1-12, IECS2109-1-2010, PEA, ZVFIT, LVFT.	Rated power (W)	20000	25000	30000	33000	35000		
Rated Act Voltage And Range/ Rated Sidr ferquency And Range According to VDE0126-1-1, VDE-AR-N4105, COC, GS9/3, C10/11, AS4777/3100, PEA According to VDE0126-1-1, VDE-AR-N4105, COC, GS9/3, C10/11, AS4777/3100, PEA According to VDE0126-1-1, VDE-AR-N4105, COC, GS9/3, C10/11, AS4777/3100, PEA According to VDE0126-1-1, VDE-AR-N4105, COC, GS9/3, C10/11, AS4777/3100, PEA According to VDE0126-1-1, VDE-AR-N4105, COC, GS9/3, C10/11, AS4777/3100, PEA According to VDE0126-1-1, VDE-AR-N4105, COC GS9/3, C10/11, AS4777/3100, PEA According to VDE0126-1-1, VDE-AR-N4105, GS9/3, C10/11, AS4777/3100, COC GS9/3, C10/11, AS4777/3100, COC GS9/3, C10/11, AS4777/3100, PEA According to VDE0126-1-1, VDE-AR-N4105, GS9/3, C10/11, AS4777/3100, COC GS9/3, C10/11, AS4777/3100, PEA According to VDE0126-1-1, VDE-AR-N4105, GS9/3, C10/11, AS4777/3100, COC GS9/3, C10/11, Tin 3, 21, AS4777	Max AC Current (A)	32	40	48	48	48		
Rated Grid frequency And Range	Rated AC Voltage And Range/	3/P	E, 230/400V (320~460V);	3/PE, 220/380V (320~460V).	3/N/PE,243/400V, (357~483V)		
According to VDE0126-1-1, VDE-AP-N4105, CQC, G59/3, C10/11, AS4777/3100, PEA		50Hz (47~51.5Hz) / 60Hz (57~61.5Hz)						
THD	riange	According to VDE0126-1-1, VDE-AR-N4105, CQC, G59/3, C10/11, AS4777/3100, PEA						
AC connection Three-phase (L1, L2, L3, PE) or (L1, L2, L3, N, PE) System Cooling method Smart Cooling method Max efficiency 98.40% 98.40% 98.50% 98.50% 98.50% 98.50% Euro-efficiency 98.00% 98.00% 98.00% 98.10% 98.10% MPPT efficiency 99.9% Degree of protection IP65 Self-consumption (at night) < <0.5W Topology Transformeriess Operating temperature range -25°C~+60°C (derate after 45°C) Relative humidity 0.96%, no condensation Protection DC isolation monitoring, DC monitoring, grounding fault monitoring, grid monitoring, island protection, overvoltage and short circuit protection, etc. Noise < <50dB Display and communication Display 3.5inches LCD display, support backlit display System language English, Chinese, German, Dutch Key Integrated Communication interfaces: RS485 (Standard), WFi, Ethernet (Optional) Mechanical parameters Dimension (H x W x D mm) 660x525x250 Weight (kg) 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 4mm²) TUV, CE, WDE012E-1-1, VDE-AR-N4105, G58/3,C10/11, TF3.2.1, AS4777/3100,COC En61000-6-1:4, EN61000-11:12, EIC682109-1:2010, PEA,ZVRT,LVRT	Power factor			-0.8~+0.8 (Adjustable)				
System Cooling method Smart Cooling Met	THD	< 3% (at rated power)						
Cooling method Smart Cooling method Max efficiency 98.40% 98.40% 98.50% 98.50% 98.50% 98.50% 98.50% 98.50% 98.50% 98.50% 98.10% 98.20% 98.20% 98.20% 98.20% 98.20% 98.20% 98.20% 98.20% 98.20% 98.20% 98.20% 98.20% 98.20% 98.20% 98.20% 98.20%	AC connection	Three-phase (L1, L2, L3, PE) or (L1, L2, L3, N, PE)						
Max efficiency 98.40% 98.40% 98.50% 98.50% 98.50% Euro-efficiency 98.00% 98.00% 98.10% 98.10% MPPT efficiency 99.9% 99.9% Degree of protection IP65 Self-consumption (at night) <0.5W	System							
Euro-efficiency 98.00% 98.00% 98.00% 98.00% 98.10% 98.10% MPPT efficiency Degree of protection Self-consumption (at night) Topology Transformerless Operating temperature range -25°C-+60°C (derate after 45°C) Relative humidity DC isolation monitoring, DC monitoring, grounding fault monitoring, grid monitoring, island protection, overvoltage and short circuit protection, etc. Noise < 50dB Display and communication Display 3.5inches LCD display, support backlit display System language English, Chinese, German, Dutch Key Integrated Communication interfaces: RS485 (Standard), WiFi, Ethernet (Optional) Mechanical parameters Dimension (H x W x D mm) 660x525x250 Weight (kg) 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 4mm²) TUV, CE, VDE0126-1-1, VDE-AR-N4105, G59/3,C10/11, TF3.2-1, AS4777/3100,CQC ENS1000-6-1-4, ENS1000-11:21, EC62109-1:2010, PEA,ZVRT,LVRT	Cooling method			Smart Cooling method				
MPPT efficiency Degree of protection Self-consumption (at night) Topology Transformerless Operating temperature range -25°C~+60°C (derate after 45°C) Relative humidity Describe a condensation Protection Display and communication Display and communication Display 3.5inches LCD display, support backlit display System language English, Chinese, German, Dutch Key Integrated Communication interfaces: RS485 (Standard), WiFi, Ethernet (Optional) Mechanical parameters Dimension (H x W x D mm) 660x525x250 Weight (kg) 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 4mm²) TUV, CE, VDE0126-1-1, VDE-AR-N4105, G59/3,C10/11, TF3.2.1, AS4777/3100,COC EN61000-6-1-4, EN61000-11:12, IEC62109-1:2010, PEA,ZVRT,LVRT	Max efficiency	98.40%	98.40%	98.50%	98.50%	98.50%		
Degree of protection Self-consumption (at night) Self-consumption (at night) Topology Transformerless Operating temperature range -25°C-+60°C (derate after 45°C) 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 < 50dB Display and communication Display 3.5inches LCD display, support backlit display System language English, Chinese, German, Dutch Key Integrated Communication interfaces: RS485 (Standard), WiFi, Ethernet (Optional) Mechanical parameters Dimension (H x W x D mm) 660x525x250 Weight (kg) 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 4mm²) TUV, CE, VDE0126-1-1, VDE-AR-N4105, G59/3, C10/11, TF3.2.1, AS4777/3100, CQC EN61000-6-1:4, EN61000-11:12, EIC62109-1:2010, PEA,ZVRT,LVRT	Euro-efficiency	98.00%	98.00%	98.00%	98.10%	98.10%		
Self-consumption (at night) Topology Transformerless Operating temperature range -25°C ~ +60°C (derate after 45°C) 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 < 50dB Display and communication Display 3.5inches LCD display, support backlit display System language English, Chinese, German, Dutch Key Integrated Communication interfaces: RS485 (Standard), WiFi, Ethernet (Optional) Mechanical parameters Dimension (H x W x D mm) 660x525x250 Weight (kg) 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 4mm²) TUV, CE, VDE0126-1-1, VDE-AR-N4105, G59/3, C10/11, TF3.2.1, AS4777/3100, CQC EN61000-6-1:4, EN61000-11:12, EC62109-1:2010, PEA,ZVRT,LVRT	MPPT efficiency			99.9%				
Topology Transformerless Operating temperature range -25°C++60°C (derate after 45°C) Relative humidity -25°C++60°C (derate after 45°C) Relative humidity -25°C++60°C (derate after 45°C) Relative humidity -25°C++60°C (derate after 45°C) Protection DC isolation monitoring, DC monitoring, grounding fault monitoring, grid monitoring, island protection, overvoltage and short circuit protection, etc. Noise -<50dB Display and communication Display -50dB System language -50dB English, Chinese, German, Dutch Key -1ntegrated -1ntegrated Communication interfaces: -85485 (Standard), WiFi, Ethernet (Optional) Mechanical parameters Dimension (H x W x D mm) -660x525x250 Weight (kg) -52 Installation -52 Uklight (kg) -52 Installation -52 Uklight (kg) -52 Tuv, CE, VDE0126-1-1, VDE-AR-N4105, G59/3,C10/11, TF3.2.1, AS4777/3100,CQC -5161000-6-1:4, EN61000-11:12, IEC62109-1:2010, PEA,ZVRT,LVRT	Degree of protection			IP65				
Operating temperature range -25°C ~+60°C (derate after 45°C) Relative humidity O~95%, no condensation Protection DC isolation monitoring, DC monitoring, grounding fault monitoring, grid monitoring, island protection, overvoltage and short circuit protection, etc. Noise < 50dB Display and communication Display 3.5inches LCD display, support backlit display System language English, Chinese, German, Dutch Key Integrated Communication interfaces: RS485 (Standard), WiFi, Ethernet (Optional) Mechanical parameters Dimension (H x W x D mm) 660x525x250 Weight (kg) 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 4mm²) TUV, CE, VDE0126-1-1, VDE-AR-N4105, G59/3,C10/11, TF3.2.1, AS4777/3100,CQC EN61000-6-1:4, EN61000-11:12, IEC62109-1:2010, PEA,ZVRT,LVRT	Self-consumption (at night)			<0.5W				
Relative humidity O-95%, no condensation Protection DC isolation monitoring, DC monitoring, grounding fault monitoring, grid monitoring, island protection, overvoltage and short circuit protection, etc. Noise < 50dB Display and communication Display 3.5inches LCD display, support backlit display System language English, Chinese, German, Dutch Key Integrated Communication interfaces: RS485 (Standard), WiFi, Ethernet (Optional) Mechanical parameters Dimension (H x W x D mm) 660x525x250 Weight (kg) 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 4mm²) TUV, CE, VDE0126-1-1, VDE-AR-N4105, G59/3,C10/11, TF3.2.1, AS4777/3100,CQC EN61000-6-1:4, EN61000-11:12, IEC62109-1:2010, PEA,ZVRT,LVRT	Topology			Transformerless				
Protection DC isolation monitoring, DC monitoring, grounding fault monitoring, grid monitoring, island protection, overvoltage and short circuit protection, etc. Noise < 50dB Display and communication Display 3.5inches LCD display, support backlit display System language English, Chinese, German, Dutch Key Integrated Communication interfaces: RS485 (Standard), WiFi, Ethernet (Optional) Mechanical parameters Dimension (H x W x D mm) 660x525x250 Weight (kg) 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 4mm²) TUV, CE, VDE0126-1-1, VDE-AR-N4105, G59/3,C10/11, TF3.2.1, AS4777/3100,CQC EN61000-6-1:4, EN61000-11:12, IEC62109-1:2010, PEA,ZVRT,LVRT	Operating temperature range		-25	$^{\circ}$ C~+60 $^{\circ}$ C (derate after 45 $^{\circ}$ C	C)			
Island protection, overvoltage and short circuit protection, etc. Noise < 50dB Display and communication Display 3.5inches LCD display, support backlit display System language English, Chinese, German, Dutch Key Integrated Communication interfaces: RS485 (Standard), WiFi, Ethernet (Optional) Mechanical parameters Dimension (H x W x D mm) 660x525x250 Weight (kg) 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 4mm²) TUV, CE, VDE0126-1-1, VDE-AR-N4105, G59/3,C10/11, TF3.2.1, AS4777/3100,CQC EN61000-6-1:4, EN61000-11:12, IEC62109-1:2010, PEA,ZVRT,LVRT	Relative humidity			0~95%, no condensation				
Display and communication Display 3.5inches LCD display, support backlit display System language English, Chinese, German, Dutch Key Integrated Communication interfaces: RS485 (Standard), WiFi, Ethernet (Optional) Mechanical parameters Dimension (H x W x D mm) 660x525x250 Weight (kg) 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 4mm²) TUV, CE, VDE0126-1-1, VDE-AR-N4105, G59/3,C10/11, TF3.2.1, AS4777/3100,CQC EN61000-6-1:4, EN61000-11:12, IEC62109-1:2010, PEA,ZVRT,LVRT	Protection	DC				ng,		
Display 3.5inches LCD display, support backlit display System language English, Chinese, German, Dutch Key Integrated Communication interfaces: RS485 (Standard), WiFi, Ethernet (Optional) Mechanical parameters Dimension (H x W x D mm) 660x525x250 Weight (kg) 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 4mm²) TUV, CE, VDE0126-1-1, VDE-AR-N4105, G59/3,C10/11, TF3.2.1, AS4777/3100,CQC EN61000-6-1:4, EN61000-11:12, IEC62109-1:2010, PEA,ZVRT,LVRT	Noise			< 50dB				
System language English, Chinese, German, Dutch Key Integrated Communication interfaces: RS485 (Standard), WiFi, Ethernet (Optional) Mechanical parameters Mechanical parameters Dimension (H x W x D mm) 660x525x250 Weight (kg) 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 4mm²) TUV, CE, VDE0126-1-1, VDE-AR-N4105, G59/3,C10/11, TF3.2.1, AS4777/3100,CQC EN61000-6-1:4, EN61000-11:12, IEC62109-1:2010, PEA,ZVRT,LVRT	Display and communication							
Key Integrated Communication interfaces: RS485 (Standard), WiFi, Ethernet (Optional) Mechanical parameters Mechanical parameters Dimension (H x W x D mm) 660x525x250 Weight (kg) 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 4mm²) Certifications TUV, CE, VDE0126-1-1, VDE-AR-N4105, G59/3,C10/11, TF3.2.1, AS4777/3100,CQC EN61000-6-1:4, EN61000-11:12, IEC62109-1:2010, PEA,ZVRT,LVRT	Display		3.5inches	LCD display, support backlif	t display			
Communication interfaces: RS485 (Standard), WiFi, Ethernet (Optional) Mechanical parameters Dimension (H x W x D mm) 660x525x250 Weight (kg) 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 4mm²) TUV, CE, VDE0126-1-1, VDE-AR-N4105, G59/3,C10/11, TF3.2.1, AS4777/3100,CQC EN61000-6-1:4, EN61000-11:12, IEC62109-1:2010, PEA,ZVRT,LVRT	System language		Eng	lish, Chinese, German, Duto	ch			
Mechanical parameters Dimension (H x W x D mm) 660x525x250 Weight (kg) 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 4mm²) TUV, CE, VDE0126-1-1, VDE-AR-N4105, G59/3,C10/11, TF3.2.1, AS4777/3100,CQC EN61000-6-1:4, EN61000-11:12, IEC62109-1:2010, PEA,ZVRT,LVRT	Key	Integrated						
Dimension (H x W x D mm) 660x525x250 Weight (kg) 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 4mm²) Certifications TUV, CE, VDE0126-1-1, VDE-AR-N4105, G59/3,C10/11, TF3.2.1, AS4777/3100,CQC EN61000-6-1:4, EN61000-11:12, IEC62109-1:2010, PEA,ZVRT,LVRT	Communication interfaces:	RS485 (Standard), WiFi, Ethernet (Optional)						
Weight (kg) 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 4mm²) Certifications TUV, CE, VDE0126-1-1, VDE-AR-N4105, G59/3,C10/11, TF3.2.1, AS4777/3100,CQC EN61000-6-1:4, EN61000-11:12, IEC62109-1:2010, PEA,ZVRT,LVRT	Mechanical parameters							
Installation Wall mounting Others DC terminal DC terminal BC03A, BC03B (PV-FT-CF-C-4-300-BU (-); PV-FT-CM-C-4-300-RD (+), Helios H4 4mm²) Certifications TUV, CE, VDE0126-1-1, VDE-AR-N4105, G59/3,C10/11, TF3.2.1, AS4777/3100,CQC EN61000-6-1:4, EN61000-11:12, IEC62109-1:2010, PEA,ZVRT,LVRT	Dimension (H x W x D mm)	660x525x250						
Others DC terminal BC03A, BC03B (PV-FT-CF-C-4-300-BU (-); PV-FT-CM-C-4-300-RD (+), Helios H4 4mm²) TUV, CE, VDE0126-1-1, VDE-AR-N4105, G59/3,C10/11, TF3.2.1, AS4777/3100,CQC EN61000-6-1:4, EN61000-11:12, IEC62109-1:2010, PEA,ZVRT,LVRT	Weight (kg)	52						
DC terminal BC03A, BC03B (PV-FT-CF-C-4-300-BU (-); PV-FT-CM-C-4-300-RD (+), Helios H4 4mm²) Certifications TUV, CE, VDE0126-1-1, VDE-AR-N4105, G59/3,C10/11, TF3.2.1, AS4777/3100,CQC EN61000-6-1:4, EN61000-11:12, IEC62109-1:2010, PEA,ZVRT,LVRT	Installation			Wall mounting				
Certifications TUV, CE, VDE0126-1-1, VDE-AR-N4105, G59/3,C10/11, TF3.2.1, AS4777/3100,CQC EN61000-6-1:4, EN61000-11:12, IEC62109-1:2010, PEA,ZVRT,LVRT	Others							
EN61000-6-1:4, EN61000-11:12, IEC62109-1:2010, PEA,ZVRT,LVRT	DC terminal	BC03/	A, BC03B (PV-FT-CF-C-4	-300-BU (-); PV-FT-CM-C-4-	300-RD (+), Helios H4 4	lmm²)		
Factory warranty (years) 5 (standard) / 10, 15, 20 (optional)	Certifications	TUV,				CQC		
	Factory warranty (years)		5 (st	tandard) / 10, 15, 20 (option	al)			

iMars BG Series Three Phase Grid-tied Solar Inverter

BG40KTR BG50KTR BG60KTR



Features

power plant systems.

 Dual MPPTs work independently and allow unbalanced input power. One MPPT maximum input is up to 60% of Max. DC power.

and monitoring solutions for household, commercial and

- 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

	BG40KTR	BG50KTR	BG60KTR		
Input (DC)	Datorrit	Bacomin	Bassititi		
	1000	110	0		
Max. DC voltage (V) Starting voltage /Min. operation	1000	110	10		
voltage (V)		300/280			
Starting power (W)		150			
MPPT Operating Voltage Range (V) / Rated Voltage		280 - 800/610V			
Rated power voltage range (V)	580 – 800	550-8	350		
Number of MPPT / String Per MPPT	2/4	2/5	2/6		
Max. DC Power (W)	40800	54300	55000		
Max. DC Current (A) Per MPPT x Number Of MPPT	33x2	42x	2		
DC switch		Integrated			
Output (AC)					
Rated power (W)	40000	48000	58000		
Max AC Current (A)	48	52	55.7		
Rated AC Voltage And Range	3/PE, 277/480V (384~552V)	3/N/PE,277/540V (432~594V)	3/N/PE,277/680V (545~810V)		
Rated Grid frequency And Range	According to VDE0126-1-	50Hz (47~51.5Hz) / 60Hz (57~61.5Hz) I, VDE-AR-N4105, CQC, G59/3, C10/11, AS	S/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)				
System			,		
Cooling method		Smart Cooling method			
Max efficiency	98.60%	98.90	0%		
Euro-efficiency	98.20%	98.60	0%		
MPPT efficiency		99.9%			
Degree of protection		IP65			
Self-consumption (at night)		<0.5W			
Topology		Transformerless			
Operating temperature range		-25°C~+60°C (derate after 45°C)			
Relative humidity		0~95%, no condensation			
Protection		ing, DC monitoring, grounding fault monitoriotection, overvoltage and short circuit protection.			
Noise		< 50dB			
Display and communication					
Display	3	.5inches LCD display, support backlit display	<i>y</i>		
System language		English, Chinese, German, Dutch			
Key	Integrated				
Communication interfaces:	RS485 (Standard), WiFi, Ethernet (Optional)				
Mechanical parameters					
Dimension (H x W x D mm)	700x540x250				
Weight (kg)	52				
Installation	Wall mounting				
Others					
DC terminal	BC03A, BC03B (PV-FT	-CF-C-4-300-BU (-); PV-FT-CM-C-4-300-RE) (+), Helios H4 4mm²)		
Certifications		/DE-AR-N4105, G59/3,C10/11, TF3.2.1, AS :4, EN61000-11:12, IEC62109-1:2010, PE/			
		5 (standard) / 10, 15, 20 (optional)			

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iMars BG Series Three phase Grid-tied Solar inverters for 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 available 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 Cool	ing 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°C ~ +60°C (derate after 45°C)				
Relative humidity	<30dB	<50)dB			
Protection		ring, DC monitoring, grounding fault monitor otection, overvoltage and short circuit protect				
Display and communication						
Display		3.5inches LCD display, support backlit displa	ay			
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	2	3			
Installation		Wall mounting				
Others						
DC terminal	BC03A, BC03B (PV-F	T-CF-C-4-300-BU (-); PV-FT-CM-C-4-300-R	RD (+), Helios H4 4mm²)			
Factory warranty (years)		5 (standard) / 10, 15, 20 (optional)				

iMars BG Series Three phase Grid-tied Solar inverters for US

BG7KTR-US
BG9KTR-US
BG10KTR-US



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 98.3%.
- 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 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

Specification					
	BG7KTR-US	BG9KTR-US	BG10KTR-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 - 800 240 - 800				
Number of MPPT / String Per MPPT		2/3			
Max. DC Power (W)	7300	9400	10500		
Max. DC Current (A) Per MPPT x Number Of MPPT	19 x 2	21 x 2	23 x 2		
DC switch		Integrated			
Output (AC)					
Rated power (W)	7000	9000	10000		
Max AC Current (A)	20	25	28		
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 method			
Max efficiency	98.20%	98.30%	98.30%		
Euro-efficiency	97.60%	97.80%	97.80%		
MPPT efficiency		99.9%			
Protection		IP65			
Self-consumption (at night)		<0.5W			
Topology		Transformerless			
Operating temperature range		-25°C ~ +60°C (derate after 45°C)			
Relative humidity		<50dB			
Protection		ing, DC monitoring, grounding fault monitoring, stection, overvoltage and short circuit protection			
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)	610x480x204				
Weight (kg)	38				
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)			

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iMars BG Series Three phase Grid-tied Solar inverters for US

BG12KTR-US BG15KTR-US BG17KTR-US



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.
- \bullet 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

	BG12KTR-US	BG15KTR-US	BG17KTR-US	
nput (DC)				
Max. DC voltage (V)		1000		
Starting Voltage (V)		200		
Min. Operation Voltage (V)		280		
MPPT Operating Voltage Range (V) / Rated Voltage (V)		280 - 800 / 610V		
Rated power voltage range (V)	320 - 800	320 - 800	320 - 800	
Number of MPPT / String Per MPPT		2/4		
Max. DC Power (W)	12400	15400	17400	
Max. DC Current (A) Per MPPT x Number Of MPPT	25 x 2	30 x 2	33 x 2	
DC switch		Integrated		
Output (AC)				
Rated power (W)	12000	15000	17000	
Max AC Current (A)	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 method		
Max efficiency	98.30%	98.30%	98.40%	
Euro-efficiency	97.80%	97.80%	98.00%	
MPPT efficiency		99.9%		
Degree of protection		IP65		
Self-consumption (at night)	<1W			
Topology		Transformerless		
Operating temperature range		-25°C ~ +60°C (derate after 45°C)		
Relative humidity		<50dB		
Protection		itoring, DC monitoring, grounding fault monitoring protection, overvoltage and short circuit protection.		
Display and communication				
Display		3.5 inches LCD display, support backlit display	у	
System language	English, Chinese, German, Dutch			
Communication interfaces:	RS485 (Standard), Ethernet, WiFi (Optional)			
Mechanical parameters				
Dimension (H x W x D mm)	660x525x220			
Weight (kg)	52			
nstallation		Wall mounting		
Others				
OC terminal	BC03A, BC03B (PV	-FT-CF-C-4-300-BU (-); PV-FT-CM-C-4-300-RE) (+), Helios H4 4mm²)	
actory warranty (years)		5 (standard) / 10, 15, 20 (optional)		

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Hybrid Inverter —

BD3K6TL
BD5KTL
BD3K6TL-TD
BD5KTL-TD



Description

BD series hybrid inverter Series is a new generation of photovoltaic storage proudcts which were developed by INVT based on the intelligent and free maintenance concept. This series integrates charge, energy storageand photovoltaic inverter inside with multifunctional and integrated BMS (battery managemet system). It can automatically detect the state of grid and connect to it smoothly. This series is the best solution for the demand of peak shaving and can help consumers to maximize self-consumption of PV system.

Features

- Support moving roller Topology and wall mounting Topology installation, which largely saves the space and can move flexibly, suitable for various occasions;
- Professional BMS (battery management system), compatible with lead-acid battery and lithium hattery.
- Available for setting the charging current of battery according to various battery Topologys;
- Combination of on-grid and off-grid function, UPS and backup all-in-one function;

- User-friendly HMI, colorful LCD;
- Equipped with a variety of communication options: RS485 (standard), USB (standard), Ethernet (standard), Wifi (optional), diesel genset communication interface (optional);
- With Zero Export Function.

Specification

	BD3K6TL	BD5KTL	BD3K6TL-TD	BD5KTL-TD	
DC INPUT (PV)	DDONOTE	DOME	DBONOTE TD	DDSINE ID	
Max. DC Input power (W)	5200	6600	5200	6600	
Max. DC voltage (W)	0200	5200		0000	
Nominal DC voltage (V)		380			
Start-up voltage / Minimum working					
voltage (V)	150V/100				
MPP voltage range	120V~450				
Max. Input Current		15A			
Number of MPPT / String per MPPT		2/2			
AC OUTPUT 1 (GRID)					
Rated power (W)	3680	4600	3680	4600	
Rated voltage		208/220/230/240V	(Single-phase)		
Rated frequency		50Hz/60	OHz		
Voltage range		180V~270) VAC		
Frequency range		45~55Hz/5	5~65Hz		
Rated current	16A	22A	16A	22A	
Power factor		≥0.99 (at rate	ed power)		
THDI	≤3% (at rated power)				
Max eiffciency	97.20%	97.70%	97.20%	97.70%	
Euro- eiffciency	96.50%	97.00%	96.50%	97.00%	
AC OUTPUT 2 (LOAD)					
Rated power (W)	3000				
Rated voltage (V)	208/220/230/240V (±2%)				
Rated frequency	50Hz/60Hz (±0.2%)				
BATTERY					
Rated voltage	48V 120V		V		
Voltage range	43-5	58V	108-13	38V	
Topology of battery		Lithium battery or Le	ead-acid battery		
Max. charging current	≤6	5A	≤20,	A	
Max. discharging current	≤68	5A	≤20,	A	
Max eiffciency	94	%	95%	6	
OTHERS					
Operating temperature range		-25℃ to -	+40°C		
Cooling method topology		Fan			
Degree of protection		IP 20/< 10	000m;		
Humidity	0~95%, Non-condensing				
Noise	< 45dB				
Protection	DC insulation monitoring, DC over current protection, Grounding fault monitoring, Overheating protection, Electronic Protection, Overvoltage and short circuit protection etc.				
Display		LCD			
LED / Button		Integra	ted		
Communication interfaces:	RS485 (standard) Wifi (optional), Ethernet (optional), CAN-BUS (Internal Communication), USB, Genset Port				
Dimension (H x W x D mm)		500x430	x190		
Weight (kg)		25			
Installation		Moving roller /	Wall-mount		
Certification		VDE-AR-N4105, AS4	777/3100, G83/2		
\\/\-\-\-\-\-\-\-\-\-\-\-\-\-\-\-\-		d /-tll\ / () /tiI)		

1 (standard) / 3 (optional)

Warranty (Years)

iMars BN Series single-phase off-grid inverter

BN1024E BN1524E

BN2024E

BN3024E



Description

iMars BN series single-phase off-grid inverter adopt the combination technology of integrating traditional isolated UPS function and solar inverter . to provide the flexible and reliable system solution for residential or industrial uninterruptible power requirements.

Features

- Protection class IP20;
- Isolated internal transformer design to ensure the stability and reliability;
- Capable of providing the continuous power to linear load or non-linear load of lamp, computer, fridge, air-conditioner and the industrial devices;
- MPPT solar charging technology;
- Electricity Quick charging function;
- Multiple charging voltage grades to adapt to more battery Topologys, to maximize battery performance;

- over-load and short-circuit protection;
- multiple working mode are optional for different working priority (Grid / battery/saving mode);
- User-friendly multiple communication module(RS485, RS232, Ethernet, GPRS, WIFI) are optional to be compatible with more monitoring device: mobile, computer, internet/remote operation;

Support 12/24V battery, 120V/230V (50/60Hz) output.

Specification

	1024E	1524E	2024E	3024E		
Line Mode Specifications						
AC Input Voltage	220/230 Vac					
AC voltage range		155Vac~272 Vac ±2%				
Frequency	50Hz/60Hz (Auto detection)					
Frequency Range	47+0.3Hz ~ 55+0.3Hz for 50Hz; 57+0.3Hz ~ 65+0.3Hz for 60Hz					
Over-Load /Short Protection	Circuit breaker					
Efficiency	>95%					
Transfer Time	10ms (typical)					
Max Bypass Overload Current	30A					
Income Adminis						

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Invert Mode

Output Voltage Waveform	Sine wave				
Rated Output Power (VA)	1000	1500	2000	3000	
Rated Output Power (W)	1000	1500	2000	3000	
Power factor		1	.0		
Output Voltage (V)		230	Vac		
Output Voltage Regulation		±1	0%		
Output Frequency (Hz)		50Hz ± 0.3Hz/60Hz ± 0.3Hz			
Efficiency	>80%				
Over-Load Protection	,	(110% <load<125%) (125%<load<150%)="" (shutdown="" 15="" 60s;="" after="" fault="" load="" minutes;="" output)="" ±10%:="">150% ±10%: Fault (shutdown output) after 20s</load<125%)>			
Surge Rating (10s)	3000VA	4500VA	6000VA	11000VA	
Capable of starting electric motor	1 HP 2HP				
Output Short-Circuit Protection		Current limit (Fault after 10s)			
Bypass Breaker Size	10A 30A				
Nominal DC Input Voltage/ Min DC start voltage	24V /22V				
DC voltage range	20.0Vdc~32Vdc, ± 0.6Vdc regulation (Low alarm:21V; Shut-down: 20V; High fault: 32V;High recovery:31V)				
Power saver		Load ≦25W (Enabled on "P/S	auto" setting of Remote control)	

AC OUTPUT 2 (LOAD)

Charge Current	20A	25A	35A	50A			
Charge Current Regulation		± 5Adc					
Battery initial voltage	20 -31.4Vdc						
Charger Short Circuit Protection	Circuit breaker						
Breaker Size	30A						
Over Charge Protection	Bat. V ≥ 31.4Vdc, beeps 0.5s every 1s & fault after 60s						

Charger(solar)

MPPT Voltage range	15-90V
Max PV open-circuit voltage	90V
Rated Charge Current	50A
efficiency	98%
Overload protection(DC load)	2.0xlnom>20s, 1.5xlnom temperature controlled
Battery temperature sensor	BTS-optional remote battery temperature sensor for increased charging precision
Standby Power Consumption	5W

General Specifications

The second secon				
Safety Certification/ EMC Classification	CE(EN62040-1), EN62040-2, C2			
Protection class	IP20			
Operating temperature range	-15°C to 40°C (-25°C ~60°C for storage)			
Operation humidity	5% to 95%			
Audible Noise	60dB max			
Communication	RS-485/RS-232/Remote control			
Size	381mm x 217mm x 179mm 461mm x 217mm x 179mm			

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Smart PV Combiner

JTPV-CB6 JTPV-CB8 JTPV-CB10



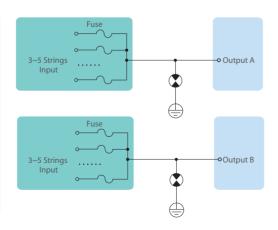
JTPV series smart photovoltaic combiner is designed for multi-string inputs photovoltaic generation system. JTPV integrates functions as string combining, detection, monitoring and protection, and ensures secure, reliable and simple connection between multi-string PV inputs and inverter. This series can be attached to iMars inverter as a unit, or installed separately.

Features

Description

- Two outputs, directly connect to two MPPTs of inverter
- Integrating DC lightening protection module and fuse, upgrade input protection to inverter
- Precise monitoring string current, voltage and operation status
- Extended Analog Input port, supporting to connect environment monitoring instrument
- Intelligent anti feedback function is optional.

- Acting to smart grid dispatching signals
- Setting output power and time interval via WinExpert and PhoneExpert
- An external 12V 100mA auxiliary power connector providing availability to system expansion
- RS485 communication interface, fully compatible with photovoltaic power generation system of internal and external communication

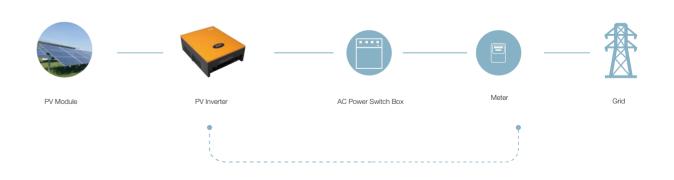


Specification

	JTPV-CB6	JTPV-CB8	JTPV-CB10		
Electrical Parameter					
Number of Max. DC Input strings	6 8 1		10		
Max. DC input Voltage (V)	1000				
Max. DC Output Current(A) × Output strings	30x2 40x2 5				
Model of Input Connection		M16			
Model of Output Connection		M16			
Detection Function	Inp	ut String Current; Output Voltage; SPD State	e		
Communication Interface		RS485			
Communicating Protocol		MODBUS-RTU			
Power Supply		Internal Power Supply			
Measuring Accuracy	2% rated (Rated current Per string 10A)				
Extended Analog Input	5 inputs of 4~20mA current signal				
Environmental Parameter					
Degree of protection	IP65				
Operation Temperature	-25 °C~+70 °C				
Relative humidity	99%, no condensation				
Operating Altitude	4000m				
Protection Parameter					
Fuse		15A			
Number of Fuse	6	8	10		
SPD		Class II			
Lightening Protection for Communication	Integrated				
Lightening Protection for Communication Port of PC Software	None				
Mechanical Parameter					
Dimension (H x W x D mm)	380 x 280 x 140				
Weight (kg)	<10				
Installation		M5 screw			

Intelligent Anti Feedback Solutions

In some applications, Power Grid Corp normally requires the PV system to be equipped with anti feedback function. That means that surplus generated electricity is not allowed to be injected into the grid via a low voltage distribution circuit and must be used for local consumption. With intelligent anti feedback function, the system sends a control signal to the inverter and adjusts the power output of the grid inverter to attain the objective of providing max power to the local load and no feedback to the grid.





Solar Pumping Inverter BPD0K7TN BPD1K5TN BPD2K2TN BPD0K7TNAC BPD1K5TNAC BPD1K5TNAC BPD2K2TNAC

Solar Pumping Inverter Introduction:

BPD series solar water-pump inverter adopts the dynamic VI MPPT technology and motor control technology, and is suitable for AC water pumps with prompt response, high efficiency and stable performance.

Features

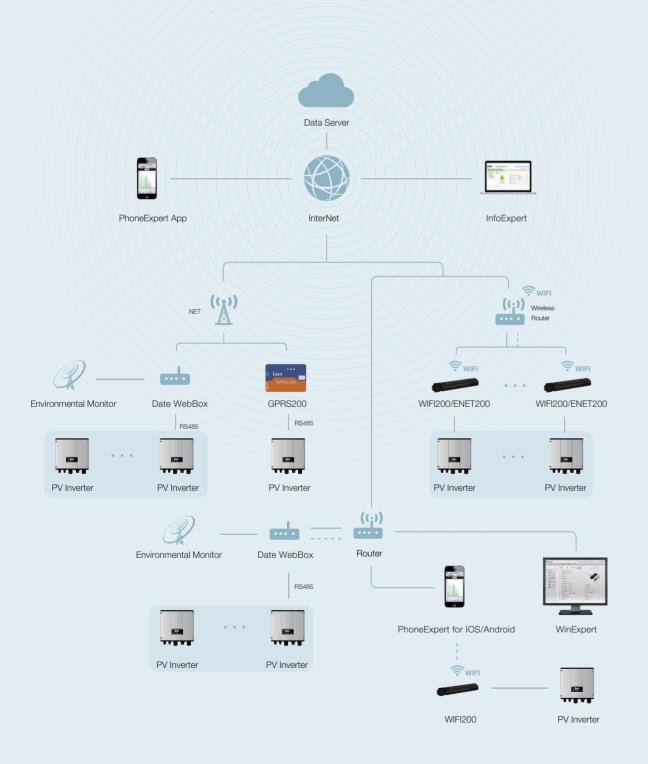
- Support driving single-phase motor and three-phase 220V motor.
- One pump inverter can be connected with multiple pumps, support vector control.
- Protection class IP65 and fanless system design, with convenient installation, maintenance free.
- Bypass function optional, support 220V Utility Power input and diesel engine input; optional water level detection module and diesel engine start/stop module.
- Low startup voltage and wide input voltage range give more possibilities for accepting multi PV strings configuration and different Topology of PV module, save PV module cost.
- Digital intelligent control can flexibly adjust and set the pump speed range. In addition to the soft start function it can also provide lightning protection, overvoltage, over current, overload protection function etc.

Specification

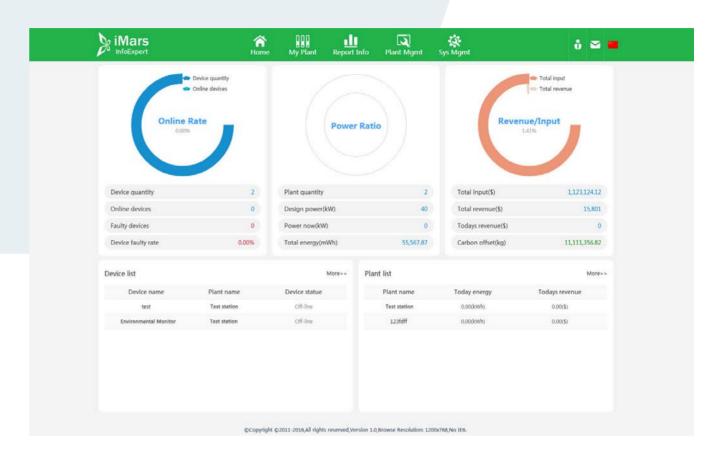
	BPD0K7TN	BPD1K5TN	BPD2K2TN	BPD0K7TNAC	BPD1K5TNAC	BPD2K2TNAC
Input (DC)				•	•	
Max. DC voltage (V)	450	450		450	450	
Starting voltage (V)	80	1	00	80	100	
Minimum working voltage (V)	60	8	80	60	8	30
MPPT Operating Voltage Range (V)	80-400	100	-400	80-400	100	-400
Number of MPPT				1		
Max. DC Current (A)	9	12	12	9	12	12
Bypass input (AC)						
Input voltage (VAC)		N/A		220	/230/240(1PH)-15%+	10%
Input frequency (Hz)		N/A			47-63	
Input connect method (AC)		N/A			1P2L	
Output (AC)						
Rated power (W)	750	1500	2200	750	1500	2200
	5.1 (1PH)	10.2 (1PH)	14 (1PH)	5.1 (1PH)	10.2 (1PH)	14 (1PH)
Rated current (A)	4.2 (3PH)	7.5 (3PH)	10 (3PH)	4.2 (3PH)	7.5 (3PH)	10 (3PH)
Output connect method	1P2L / 3P3L					
Output frequency (Hz)	1-400					
Performance						
Control mode	Motor control technology					
Topology of motor	asynchronous machine					
Other Parameter						
Dimension (H x W x D mm)			280×3	00×130		
Weight (kg)			≤ 1	10.5		
Degree of protection		IP65				
Cooling method	Natural Cooling method					
HMI				ot support LCD screen)	
communication				- 11	,	
external communication			RS485/3 d	ligital Inputs		
Certifications				3 - 1 -		
Certification	CE: IEC61800-3 C3					
Working environment	OL. ILOU 1000-3 G3					
Ambient temperature			-25°C ~ 60°C (d	lerate after 45°C)		
Working altitude	3000m (more than 2000m derating)					
Design life	5 years (warranty 18 months)					
Recommended solar array con	nfiguration			,		
250Wp (Open-circuit voltage 38V±3V)	4*1	8*1	11*1	4*1	8*1	11*1
300Wp (Open-circuit voltage 45V±3V)	3*1	6*1	9*1	3*1	6*1	9*1

Monitoring Solution

We can provide our customers with a flexible internet monitoring solution which is suitable for residential, commercial rooftop systems and PV power plants. System monitoring device is user-friendly and reliable. It can transmit Real-time data to our server via internet. Our customers can login monitoring website or use smart phone Apps to check power plant info



Remote Monitoring Platform iMars InfoExpert



Description

IMars InfoExpert photovoltaic power system remote monitoring platform is a new generation of photovoltaic networking monitoring platform developed by INVT, It includes power monitoring, power management, fault processing equipment, power generating capacity and investment income data analysis functions, provides professional power management and intelligent operation and maintenance scheme for distributors, installers and end users.

Features

- Able to communicate with the WEB browser version of the iMars WinExpert remote monitoring platform server.
- Manage user information and power station equipment
- Able to view the status of the operation of power plants, power plant equipment fault information, realtime power and investment income and other related data; and have the report function.
- Visualizde interface, display the power station and its equipment data, running state in chart.
- Able to query inverter version information, update online, collect user feedback, adjust output power and other functions.
- A neutral version of the login interface is available to our important partners.

Data Webbox



Data Webbox is a data collection equipment which connects multiple solar inverters to server. Users and manufacturers can effectively monitor the power generation and operation status by collect the data of solar inverters and weather station. Meanwhile, it also helps manufacturer maintain the equipments through remote data acquisition.

Features

- Support up to 10 inverters of data acquisition;
- Support USB for data storage;
- Can connect combiner, environment monitor, transformers and other equipment;
- Plug and play, easy to use.

Can be connected to the cloud platform, and relevant monitoring sites, supporting mobile phone APP

Functions:

- Collect solar inverters operation data and environmental monitoring equipment data, combiner box data, dry Topology transformer equipment data etc.
- Two RS-485 port for data collection, one for inverter data collection, another for weather station data collection;
- Support Ethernet, GPRS and WiFi to upload data to sever;
- Flexibly configure the required monitoring data by Data Collection Web Page or PV Monitoring Site;
- Support remote maintenance and upgration. Users can grasp the dynamic real time operation status of the power plant at any time through the mobile phone APP or monitoring website.

In case there is any fault, It can inform the users by SMS, email, WeChat or App, which reduces the power plant operation and maintenance work. Ethernet communication of the data collector adopts the international universal networking protocol which is an important interface to access the cloud platform.

Specification

Specification	
Parameter	
Max.Supported Device	10
Inverter Interface	RS-485
Remote Communication interfaces:	GPRS, Ethernet, WiFi
Serial Communication Distance	< 1km
Serial Communication Bord Rate	1200-38400bps
Radio Frequency	800/900/1800/1900MHz
The Data Sampling Interval	5 minutes by default, configurable
Data Storage	RS485
Parameter Setting Method	Web page or site monitoring
The Firmware Update Mode	Serial port, Ethernet
Data Access Mode	Serial port, remote server
Status Display	5 LED
Electrical Features	
Input Voltage	DC 5V
Static Power	< 2w
The Maximum Instantaneous Power	< 3w
Storage Temperature	-40 ~ 85°C
Operating temperature range	-10 ~ 65°C
Working Humidity	10%~90% Relative humidity, no condensation
Storage Humidity	< 40%
Degree of protection	IP21
Physical Parameters	
Size	150mm x 80mm x 26mm
Weight	1.1KG
Installation	Class II

Monitoring Modules

iMars Wifi200 / ENET200 / GPRS200 Communications Server

Product Description

iMars Wifi200/ENET200 is an external wireless / wired communication device, which connects with solar inverter via RS485 interface to monitor inverter's operation status and history. It is very easy to view the data with monitoring software (iMars WinExpert for PC or iMars PhoneExpert for smart phone).

Specification

- Serial Port: RS485 Waterproof Plug
- WiFi 200 Transmission Distance:30m(no barrier)
- ENET 200 Transmission Distance:100m
- Wireless Protocol Standard:802.11 n/g/b
- Operation Temperature: 0°C~+40°C
- Working Humidity: 10% 90% RH (no condensation)

• Storage Temperature: -40°C~+70°C

• Store Humidity: 5% - 90% RH (no condensation)

• Size: 139mmx31.7mmx21mm



iMars PhoneExp (for IOS)





Monitoring Software



Introduction

WinExpert and PhoneExpert are designed for monitoring grid-tied solar system. The user can use the PC or handheld terminal equipment to connect iMars inverter. iMars WinExpert and PhoneExpert can display and record the real-time parameters, status, historical data and alert information of the overall solar system and the single iMars inverter.

Features

Multi-level User Management ——

- Administrator authority: change software settings and modify system configuration.
- Guest authority: browse software settings and system parameters.

User-friendly Interface ——

- Simple menu bar and browser window;
- Can be zoomed out to the sticker window;

Powerful Analysis Capabilities ——

- Power output per day, month, year and total;
- CO₂ emission reduction, power generation profit;

Software Function

iMars WinExpert	iMars PhoneExpert
 The system generating capacity, economic benefits and environmental benefits 	 The system generating capacity, economic benefits and environmental benefits
View and print the system information	View the inverters real-time status
View the inverters real-time status	Add and remove inverters
Add and remove inverters	Communication management
Communication management	
E-mail system	

Solar System Design Software

Introduction

iMars SysExpert, an easy-to-use professional grid-tied PV system design software, is designed specifically for iMars series grid-tied solar inverters. After three steps of editing system information, component selection and system configuration, a single-phase or three-phase photovoltaic grid-tied power system can be designed to produce a professional design report within a few minutes.



Features

- User-friendly Interface;
- Three-step design process;
- Professional design report;
- Constantly updated database support;
- Powerful system of mathematical analysis model;



Acceptance method	Contact	Service Region	Service Time	Remark
Web Declaration	www.invt-solar.com	Global	7*24hour	Recommended
Email	solar-service@invt.com.cn	Global	7*24hour	Recommended

Key informaton needed for maintenance

- Model, product serial No.
- Fault description

invt

Russia Region

City: Moscow

Customer location and contacts

City: Saint Petersburg
Add: A-317, Building 76, Line 7,

Email: fengguodong@invt.com.cn

Tel: 0079 032 988 608

Bldg.2.2.

Tel: 0079 653 641 914

Email: Solar@invt.com.cn

Vasiliostrovskaya, Saint Petersburg, Russia.

Russia, Moscow, Balakavskij prospkt,

Applications & Service Network

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invt

Mexico Region City: Mexico City

Email: Solar@invt.com.cn

Add: Col. Cuauhtemoc, Rio Guadalquivir #76. Interior 603. Mexico D.F. 0052 (1) 442 438 5506

invt

Brazil Region

SP | BRASIL

Tel: 0055 019 3443-8228

Email: Solar@invt.com.cn

Add: Via Pref. Jurandyr Paixão, 2400 - Galpão

255/265 - Jd, Campo Belo - Limeira,

City: Limeira

invt

Poland Region

City: Warsaw 64, Bukowińska 26c, Warsaw, Poland 0048 501937227

Email: Solar@invt.com.cn



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Germany Region

City: Wuerselen

Add: Am Alten Kaninsberg 12 52146 Wuerselen Germany

Tel: 0049 02405 1403821

Email: Solar@invt.com.cn















India Region

City: Mumbai 306, Kane Plaza, Link Road,

Malad (W), Mumbai. 0091 224 266 2796

Email: Solar@invt.com.cn

invt

Thailand Region

City: Bangkok

Add: Sukumvit50, Prakhanong, KlongToey Bangkok 10260, Thailand

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(Sales, Technical Consultation, After-sales)

Tel: 0086 755 86312834 **Fax:** 0086 755 86312880 Email: Solar@invt.com.cn





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Queensland, Australia

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