

## Product Catalog

Model	Max. DC Voltage (V)/ Rated input voltage(V)	Max Input Current (A)	Max. DC Input Power (W)
MG750TL	400/300	8x1	900
MG1KTL		9x1	1200
MG1K5TL	450/300	10x1	1700
MG2KTL		12x1	2200
MG3KTL	500/360	15x1	3300
MG4KTL		19x1	4800
MG4K6TL		21x1	5520
MG5KTL		23x1	6000
MG3KTL-2M	600/360	9x2	3600
MG4KTL-2M		12x2	4800
MG4K6TL-2M		13x2	5520
MG5KTL-2M		15x2	6000
MG6KTL-2M		16x2	6300
BG4KTR		10x2	4800
BG4KTR-S		12x1	4800
BG5KTR	900/580	10x2	5700
BG5KTR-S		12x1	5700
BG6KTR		10x2	7200
BG8KTR		12x2	9000
BG10KTR	1000/580	12.5x2	11000
BG12KTR		19x2	14000
BG15KTR		21x2	18000
BG17KTR		23x2	19500
BG20KTR		25x2	20800
BG25KTR	1000/610	30x2	28000
BG30KTR		33x2	33000
BG33KTR		33x2	36000
BG35KTR		33x2	38000
BG40KTR-HV		33x2	42800
BG50KTR-HV	1100/750	42x2	53000
BG40KTR		74x1	55000
BG50KTR		90x1	66000
BG60KTR		120x1	72000
BG70KTR	1100/740	120x1	77000

Model	Max. DC Voltage (V)/ Rated input voltage(V)	Max Input Current (A)	Max. DC Input Power (W)
BG4KTR-US	1000/610	10x2	4400
BG5KTR-US		14x2	5300
BG6KTR-US		19x2	6300
BG7KTR-US		19x2	7300
BG8KTR-US		21x2	9400
BG10KTR-US		23x2	10500
BG12KTR-US		25x2	12400
BG15KTR-US		30x2	15400
BG17KTR-US		33x2	17400



# iMars MG

## Single Phase Grid-tied Solar Inverter

MG750TL / 1KTL / 1K5TL / 2KTL / 3KTL



## Monitoring solution:



Handheld HMI

WiFi 200  
GPRS 200PhoneExpert  
InfoExpert  
Monitoring Center

SysExpert



- The core technologies are from Germany.
- Wider voltage range, lower starting voltage and higher conversion efficiency (Max efficiency can reach to 97.8%).
- Adap to the complex conditions of roof, improve power generation.



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



- 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



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

## Specification

	MG750TL	MG1KTL	MG1K5TL	MG2KTL	MG3KTL
<b>Input (DC)</b>					
Max. DC input power (W)	900	1200	1700	2200	3300
Max. DC input voltage (V)	400		450		500
Starting voltage (V) / Min. operation voltage (V)	60/50			80/60	
MPPT Range(V) / Rated input voltage(V)	50-400/300	60-400/300	80-410/300	100-410/300	120-450/360
Number of MPPT / String per MPPT			1/1		
Max. DC current (A) Per MPPT x Number of MPPT	8x1	9x1	10x1	12x1	15x1
DC switch			Optional		
<b>Output (AC)</b>					
Rated output power (W)	750	1000	1500	2000	3000
Max. AC output current (A)	3.6	4.5	6.5	9	13
Grid voltage range		230/180-277V			
Grid frequency range		50Hz(44-55Hz) / 60Hz(54-65Hz)			
Power factor		≥0.99 (at rated power)			
THDi		< 3% (at rated power)			
AC output		Single-phase (L, N, PE)			
<b>System</b>					
Cooling method		Natural cooling			
Max. efficiency	96.80%	96.90%	97.20%	97.20%	97.30%
Euro-efficiency	95.95%	96.00%	96.10%	96.10%	96.50%
MPPT efficiency		99.90%			
Protection degree		IP65			
Self-consumption(at night)		<1 (W)			
Topology		Transformerless			
Operating temperature range		-25°C ~ +60°C (derate after 45°C)			
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.			
<b>Display and communication</b>					
Display		LCD (standard) / LED (optional)			
LCD language		English, Chinese, German, Dutch			
Communication interface		RS485 (standard) ; WiFi, GPRS200 (optional)			
<b>Mechanical parameters</b>					
Dimension (H x W x D mm)		280x300x138			
Weight (kg)		≤ 9.5			
Installation		Wall mounting			
<b>Others</b>					
DC terminal		Waterproof terminals			
Grid qualification		DIN VDE 0126-1-1: 2013, VDE-AR-N 4105; 2011, DIN VDE V 0124-100; 2012, EN 50438; 2013, G83-2 ;2012, IEC 61727(IEC62116), AS/NZS 4777.2:2015, NB/T32004-2013, IEC 60068-2-1:2007, IEC 60068-2-2:2007, IEC 60068-2-14:2009, IEC 60068-2-30:2005, IEC 61683: 999, C10/11, TF3.2.1			
Safe certificates / EMC certificates		IEC 62109-1:2010, IEC 62109-2:2011, EN 61000-6-2:2005, EN 61000-6-3:2007/A1:2011			
Factory warranty		5 years (standard)			

# iMars MG

## Single Phase Grid-tied Solar Inverter

MG4KTL / 4K6TL / 5KTL



## Monitoring solution:



Handheld HMI

WiFi 200  
GPRS 200PhoneExpert  
InfoExpert  
Monitoring Center

SysExpert



Efficient

- The core technologies are from Germany.
- Wider voltage range, lower starting voltage and higher conversion efficiency (Max efficiency can reach to 97.8%).
- Adap to the complex conditions of roof, improve power generation.



Smart

- Smart grid adaptive to meet the requirements of various power grid access.
- 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

	MG4KTL	MG4K6TL	MG5KTL
<b>Input (DC)</b>			
Max. DC input power (W)	4800	5520	6000
Max. DC input voltage (V)		600	
Starting voltage (V)/ Min. operation voltage (V)		120/100	
MPPT Range(V) / Rated input voltage(V)		120-550 / 360V	
Number of MPPT / String per MPPT		1/2	
Max. DC current (A) Per MPPT x Number of MPPT	19x1	21x1	23x1
DC switch		Optional	
<b>Output (AC)</b>			
Rated output power (W)	4000	4600	5000
Max. AC output current (A)	20	22	24
Grid voltage range	230/180–277V		
Grid frequency range	50Hz(44–55Hz) / 60Hz(54–65Hz)		
Power factor		≥0.99 (at rated power)	
THDi		< 3% (at rated power)	
AC output		Single-phase(L, N, PE)	
<b>System</b>			
Cooling method		Natural cooling	
Max. efficiency	97.70%	97.70%	97.80%
Euro-efficiency	96.70%	96.70%	96.80%
MPPT efficiency		99.90%	
Protection degree		IP65	
Self-consumption(at night)		<1(W)	
Topology		Transformerless	
Operating temperature range	-25 °C – +60 °C (derate after 45 °C)		
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.		
<b>Display and communication</b>			
Display		LCD (standard) / LED (optional)	
LCD language		English, Chinese, German, Dutch	
Communication interface		RS485 (standard) ; WiFi, GPRS200 (optional)	
<b>Mechanical parameters</b>			
Dimension (H x W x D mm)		405×360×150	
Weight (kg)		≤15	
Installation		Wall mounting	
<b>Others</b>			
DC terminal		Waterproof terminals	
Grid qualification	DIN VDE 0126-1-1: 2013, VDE-AR-N 4105: 2011, DIN VDE V 0124-100: 2012, G83-2 :2012, G59/3-2: 2015, IEC 61727 (IEC62116), AS/NZS 4777.2: 2015, NB/T32004-2013, IEC 60068-2-1: 2007, IEC 60068-2-2: 2007, IEC 60068-2-14: 2009, IEC 60068-2-30: 2005, IEC 61683: 1999		
Safety certificates / EMC certificates	IEC 62109-1 : 2010, IEC 62109-2 : 2011, EN 61000-6-2: 2005, EN 61000-6-3:2007/A1:2011		
Factory warranty	5 years(standard)		

# iMars MG

## Single Phase Grid-tied Solar Inverter

MG3KTL- 2M / 4KTL- 2M / 4K6TL- 2M / 5KTL- 2M / 6KTL- 2M



### Monitoring solution:



Handheld HMI



WiFi 200  
GPRS 200



PhoneExpert  
InfoExpert  
Monitoring Center



SysExpert



- The core technologies are from Germany.
- Wider voltage range, lower starting voltage and higher conversion efficiency (Max efficiency can reach to 97.8%).
- Two MPPT, adapt to the complex conditions of roof, improve power generation.



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



- 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



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

### Specification

	MG3KTL-2M	MG4KTL-2M	MG4K6TL-2M	MG5KTL-2M	MG6KTL-2M
<b>Input (DC)</b>					
Max. DC input power (W)	3600	4800	5520	6000	6300
Max. DC input voltage (V)			600		
Starting voltage (V) / Min. operation voltage (V)			120/100		
MPPT Range(V) /			120-550/360		
Rated input voltage(V)					
Number of MPPT / String per MPPT			2/1		
Max. DC current (A) Per MPPT x Number of MPPT	9x2	12x2	13x2	15x2	16x2
DC switch				Optional	
<b>Output (AC)</b>					
Rated output power (W)	3000	4000	4600	5000	6000
Max. AC output current (A)	16	20	22	24	26
Grid voltage range			230/180-277V		
Grid frequency range			50Hz(44~55Hz) / 60Hz(54~65Hz)		
Power factor			≥0.99 (at rated power)		
THDi			< 3% (at rated power)		
AC output			Single-phase(L, N, PE)		
<b>System</b>					
Cooling method			Natural cooling		
Max. efficiency	97.70%	97.70%	97.70%	97.80%	97.80%
Euro-efficiency	96.70%	96.70%	96.70%	96.80%	96.80%
MPPT efficiency			99.90%		
Protection degree			IP65		
Self-consumption(at night)			<1 (W)		
Topology			Transformerless		
Operating temperature range			-25°C ~ +60°C ( derate after 45°C)		
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.		
<b>Display and communication</b>					
Display			LCD (standard) / LED (optional)		
LCD language			English, Chinese, German, Dutch		
Communication interface			RS485 (standard) ; WiFi, GPRS200( optional)		
<b>Mechanical parameters</b>					
Dimension (H x W x D mm)			460x360x150		
Weight (kg)			≤18		
Installation			Wall mounting		
<b>Others</b>					
DC terminal			Waterproof terminals		
Grid qualification			DIN VDE 0126-1-1: 2013, VDE-AR-N 4105: 2011, DIN VDE 0124-100: 2012, G83-2 :2012, G59/3-2: 2015, IEC 61727(IEC62116), AS/NZS 4777.2: 2015, NB/T32004-2013, IEC 60068-2-1: 2007, IEC 60068-2-14: 2009, IEC 60068-2-30: 2005, IEC 61683: 1999		
Safe certificates / EMC certificates			IEC 62109-1:2010, IEC 62109-2 : 2011, EN 61000-6-2: 2005, EN 61000-6-3:2007/A1:2011		
Factory warranty			5 years (standard)		

# iMars BG

## Three Phase Grid-tied Solar Inverter

BG4KTR / 5KTR / 6KTR / 8KTR / 10KTR



### Monitoring solution:



- 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 conditions of roof, improve power generation.
- Adopt the latest technologies and combination of T-type three level topologies and SVPWM.



- 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.



- 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



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

### Specification

	BG4KTR	BG4KTR-S	BG5KTR	BG5KTR-S	BG6KTR	BG8KTR	BG10KTR
<b>Input (DC)</b>							
Max. DC input power (W)	4800	4800	5700	5700	7200	9000	11000
Max. DC input voltage (V)			900				1000
Starting voltage (V)/ Min. operation voltage (V)			220/180				220/150
MPPT Range(V)			200-800/580				200-800/610
Rated input voltage(V)							
Number of MPPT / String per MPPT	2/1	1/1	2/1	1/1		2/1	
Max. DC current (A) Per MPPT x Number of MPPT	10x2	12x1	10x2	12x1	10x2	12x2	12.5x2
DC switch					Optional		
<b>Output (AC)</b>							
Rated output power (W)	4000	4000	5000	5000	6000	8000	10000
Max. AC output current (A)	6.4	6.4	8	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, N, PE)/(L1, L2, L3, PE)				
<b>System</b>							
Cooling method				Natural cooling			Smart cooling
Max. efficiency	98.10%	98.10%	98.10%	98.10%	98.20%	98.30%	98.30%
Euro-efficiency	97.50%	97.50%	97.60%	97.60%	97.70%	97.80%	97.80%
MPPT efficiency				99.90%			
Protection degree					IP65		
Self-consumption(at night)					< 0.5 (W)		
Topology					Transformerless		
Operating temperature range					-25°C ~ +60°C ( derate after 45°C)		
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
<b>Display and communication</b>							
Display			2.0 inches LCD display, support backlit display				
LCD language			English, Chinese, German, Dutch				
Keyboard				Integrated			
Communication interface				RS485 (standard); WiFi, GPRS200(optional)			
<b>Mechanical parameters</b>							
Dimension (H x W x D mm)			530x360x150				575x360x150
Weight (kg)			20				23
Installation				Wall mounting			
<b>Others</b>							
DC terminal				Waterproof terminals			
Grid qualification			IEC 61727(IEC62116), IEC 60068-2-2: 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 certificates / EMC certificates			IEC 62109-1 : 2010, IEC 62109-2 : 2011, EN 61000-6-2: 2005, EN 61000-6-3:2007/A1:2011				
Factory warranty				5 years(standard)			

# iMars BG

## Three Phase Grid-tied Solar Inverter

BG12KTR / 15KTR / 17KTR



### Monitoring solution:



WiFi 200  
GPRS 200



PhoneExpert  
InfoExpert  
Monitoring Center



SysExpert



- 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.

- 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.

- 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.

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

### Specification

	BG12KTR	BG15KTR	BG17KTR
<b>Input (DC)</b>			
Max. DC input power (W)	14000	18000	19500
Max. DC input voltage (V)		1000	
Starting voltage (V) / Min. operation voltage (V)		200/180	
MPPT Range(V) / Rated input voltage(V)		180-800/610	
Number of MPPT / String per MPPT	2/2		
Max. DC current (A) Per MPPT x Number of MPPT	19x2	21x2	23x2
DC switch		Integrated	
<b>Output (AC)</b>			
Rated output power (W)	12000	15000	17000
Max. AC output current (A)	20	24	28
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, N, PE)/(L1, L2, L3, PE)		
<b>System</b>			
Cooling method	Smart cooling		
Max. efficiency	98.20%	98.30%	98.30%
Euro-efficiency	97.60%	97.80%	97.80%
MPPT efficiency	99.90%		
Protection degree	IP65		
Self-consumption(at night)	< 0.5 (W)		
Topology	Transformerless		
Operating temperature range	-25°C ~ +60°C (derate after 45°C)		
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)	< 50		
<b>Display and communication</b>			
Display	3.5 inches LCD display, support backlit display		
LCD language	English, Chinese, German, Dutch		
Keyboard	Integrated		
Communication interface	RS485 (standard); WiFi, GPRS200 (optional)		
<b>Mechanical parameters</b>			
Dimension (H x W x D mm)	610x480x230		
Weight (kg)	38		
Installation	Wall mounting		
<b>Others</b>			
DC terminal	Waterproof terminals		
Grid qualification	DIN VDE 0126-1-1: 2013, VDE-AR-N 4105: 2011, DIN VDE V 0124-100: 2012, IEC 61727(IEC62116) , AS/NZS 4777.2: 2015, NB/T32004-2013, IEC 60068-2-1: 2007, IEC 60068-2-2: 2007, IEC 60068-2-14: 2009, IEC 60068-2-30: 2005, IEC 61683: 1999, C10/11: 2012		
Safe certificates / EMC certificates	IEC 62109-1 : 2010, IEC 62109-2 : 2011, EN 61000-6-2: 2005, EN 61000-6-3:2007/A1:2011		
Factory warranty	5 years(standard)		

# iMars BG

## Three Phase Grid-tied Solar Inverter

BG20KTR / 25KTR / 30KTR / 33KTR / 35KTR / 40KTR-HV / 50KTR-HV



- 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.



- 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.



- 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.



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

### Monitoring solution:



WiFi 200  
GPRS 200



PhoneExpert  
InfoExpert  
Monitoring Center



SysExpert

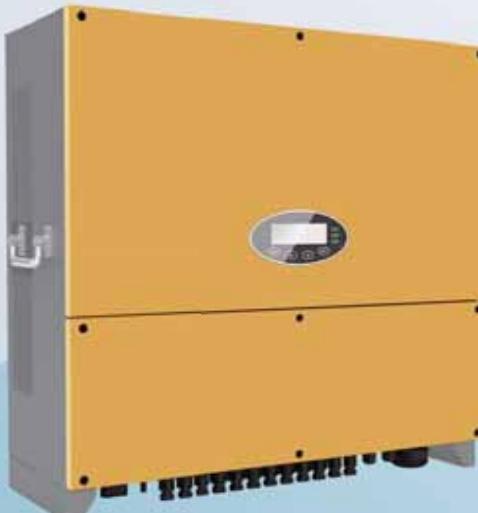
### Specification

	BG20KTR	BG25KTR	BG30KTR	BG33KTR	BG35KTR	BG40KTR-HV	BG 50KTR-HV
<b>Input (DC)</b>							
Max. DC input power (W)	20800	28000	33000	36000	38000	42800	53000
Max. DC input voltage (V)				1000			1100
Starting voltage (V) / Min. operation voltage (V)			300/280				200/150
MPPT Range(V) / Rated input voltage(V)				280 - 800/610			200-900/750
Number of MPPT / String per MPPT			2/3			2/4	2/5
Max. DC current (A) Per MPPT x Number of MPPT	25x2	30x2	33x2	33x2	33x2	33x2	42x2
DC switch						Integrated	
<b>Output (AC)</b>							
Rated output power (W)	20000	25000	30000	33000	35000	40000	50000
Max. AC output current (A)	32	40	48	48	48	48	53
Grid voltage range	3/N/PE,230/400V, (320–460V); 3/N/PE,220/380V, (320–460V)			3/N/PE,243/400V, 3/N/PE,277/480V, (357–483V)			3/N/PE,310/540V, 459-594Vac
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, N, PE)/(L1, L2, L3, PE)			
<b>System</b>							
Cooling method					Smart cooling		
Max. efficiency	98.40%	98.40%	98.50%	98.50%	98.50%	98.60%	98.60%
Euro-efficiency	98.00%	98.00%	98.00%	98.10%	98.10%	98.20%	98.20%
MPPT efficiency					99.90%		
Protection degree					IP65		
Self-consumption(at night)					< 0.5 (W)		
Topology					Transformerless		
Operating temperature range					-25°C ~ +60°C (derate after 45°C)		
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)					< 50		
<b>Display and communication</b>							
Display				3.5 inches LCD display, support backlit display		LED display	
LCD language				English, Chinese, German, Dutch		/	
Keyboard				Integrated		/	
Communication interface				RS485 (standard); WiFi, GPRS200(optional)		RS485 (standard), WiFi, Etherne(optional), PLC carrier communication (optional)	
<b>Mechanical parameters</b>							
Dimension (H x W x D mm)				660x520x250		645x660x425	
Weight (kg)				52		57	
Installation				Wall mounting			
<b>Others</b>							
DC terminal				Waterproof terminals			
Grid qualification				DIN VDE 0126-1-1:2013, VDE-AR-N 4105: 2011, DIN VDE 0124-100: 2012, IEC 61727(IEC62116), AS/NZS 4777.2: 2015, NB/T32004-2013, IEC 60068-2-1: 2007, IEC 60068-2-2: 2007, IEC 60068-2-14: 2009, IEC 60068-2-30: 2005, IEC 61683: 1999, C10/11: 2012, G59/3-2: 2015, EN 50438: 2013, Leader, ZVRT, PEA			
Safe certificates / EMC certificates				IEC 62109-1 : 2010, IEC 62109-2 : 2011, EN 61000-6-2: 2005, EN 61000-6-3:2007/A1:2011			
Factory warranty				5 years (standard)			

# iMars BG

## Three Phase Grid-tied Solar Inverter

BG40KTR / 50KTR / 60KTR / 70KTR



### Monitoring solution:

WiFi 200  
GPRS 200PhoneExpert  
InfoExpert  
Monitoring Center

SysExpert



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.
- 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

	BG40KTR	BG50KTR	BG60KTR	BG70KTR
<b>Input (DC)</b>				
Max. DC input power (W)	55000	66000	72000	77000
Max. DC input voltage (V)		1100		
Starting voltage (V) / Min. operation voltage (V)		200/570		
MPPT Range(V) / Rated input voltage(V)		570-950/740		
Number of MPPT / String per MPPT	1/10	1/12	1/14	1/14
Max. DC current (A) Per MPPT x Number of MPPT	74x1	90x1	120x1	120x1
DC switch			Integrated	
<b>Output (AC)</b>				
Rated output power (W)	40000	50000	60000	66000
Max. AC output current (A)	64	80	96	96
Grid voltage range		3/N/PE,230/400,310-480Vac		
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, N, PE)/(L1, L2, L3, PE)		
<b>System</b>				
Cooling method		Smart cooling		
Max. efficiency	98.90%	98.90%	99.00%	99.00%
Euro-efficiency	98.50%	98.50%	98.50%	98.50%
MPPT efficiency		99.90%		
Protection degree		IP65		
Self-consumption(at night)		<0.5 W		
Topology		Transformerless		
Operating temperature range		-25°C ~ +60°C ( derate after 45°C)		
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)		< 60		
<b>Display and communication</b>				
Display		3.5 inches LCD display, support backlit display		
LCD language		English, Chinese, German, Dutch		
Keyboard		Integrated		
Communication interface		RS485 (standard); WiFi, GPRS200 (optional), PLC carrier communication (optional)		
<b>Mechanical parameters</b>				
Dimension (H x W x D mm)		810X645X235		
Weight (kg)		53		
Installation		Wall mounting		
<b>Others</b>				
DC terminal		Waterproof terminals, PO (optional)		
Grid qualification		NB/T 3200-2013, TUV/CE, VDE0126-1-1, VDE-AR-N4105, GS9/3, C10/11, TF3.2.1, AS/NZS, 4777.2:2015, EN61000-6-1:4, EN61000-6-1:4, EN61000-11:12, IEC62109-1:2010, PEA, ZVRT		
Safe certificates / EMC certificates		VDE-AR-N4105, AS4777/3100, CQC		
Factory warranty		5 years (standard)		