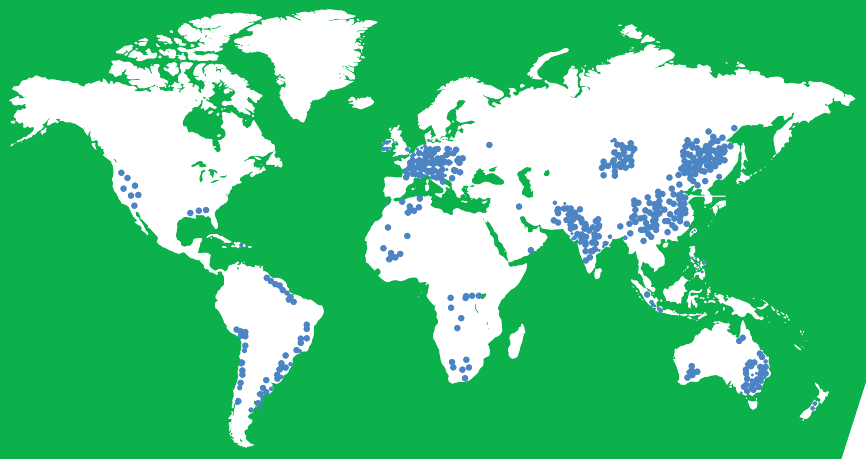
# iMars Series

## Solar Inverter Catalog

Power by solar, Cool the earth.



Powered by Solar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Y8/1-05(V8.5)


**G83/G59 C10/11 TF3.2.1 PEA MEA VDE4105**

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# About Us


## Introduction

INVT, which was established in 2002, and listed as an A-share company on the Shenzhen Stock Exchange (stock code: 002334) in 2010.

Based on the accumulation of 16 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 solar inverter successfully.

iMars series solar inverters, including grid-tied solar inverter, hybrid inverter, off-grid solar inverter, solar pumping inverter, monitoring softeware,etc.,which 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. What's more, its products are exported to more than 60 countries and regions in Europe, Australia, Asia, Middle East and so on.

For its better service and maintenance in time for different countries and regions, INVT has established more than 40 maintenance points all over the world, which has built a closed-loop, seamless, linking model to provide service for customers by online diagnosis and offline services.

INVT Solar has a professional technical support, efficient production delivery and outstanding after-sales service. On the way to be a PV leader, we will accelerate the development of PV business and market layout in the future, and constantly close to customer needs. As well we committed to become a reliable new energy solutions provider, to make our mission come true—Power by solar, Cool the earth.

### Suzhou Industrial Park

With more than one hundred and thirty thousand square meters covered area, it locates in Science and Technology City of high-tech zone,Suzhou,China. The building area of factory has over 40,000㎡ for the production line. In order to promote the new concept of energy conservation, Suzhou Industrial Park is constructed with a design of low - carbon ecological environment. For example, the rainwater collection system can be reused for greening and watering.



### Guangming Industrial Park

With covering a floor area of 13,800㎡ and building area of 34,700㎡, it is located in Gongming Street, Guangming New District, Shenzhen. Based on the overall planning idea of Modern, Green and Environmental Protection, Guangming Industrial Park would be made up of office, R&D, Sales and production with a three-dimensional greening design.


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# Our Advantages

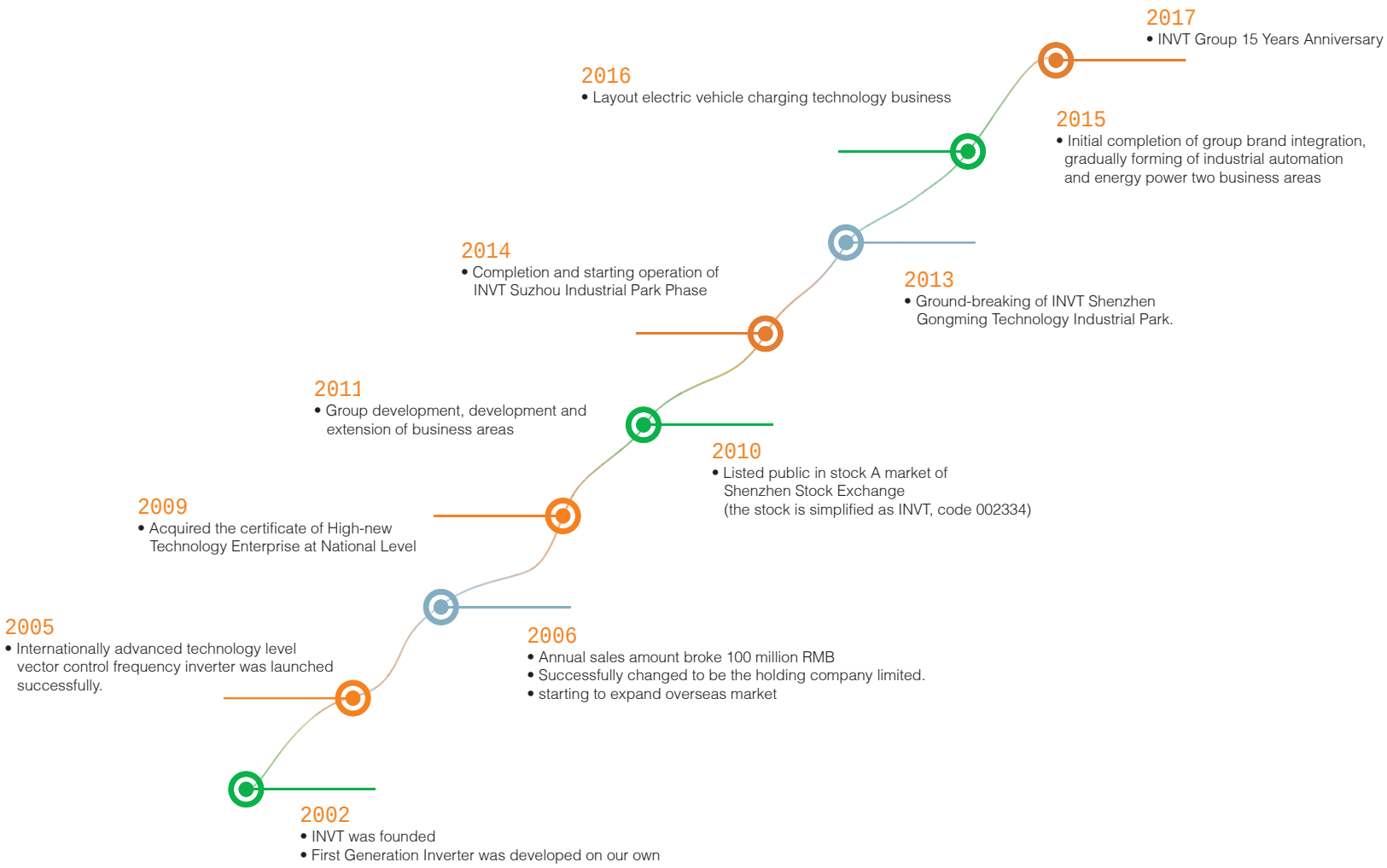
13 R&D centers.

More than 10% sales revenue is invested in R&D.

8 laboratories, awarded ACT from TUV SUD and WTDP-UL qualification, recognized by CNAS.

More than 850 pcs of patents.

## Development Milestone



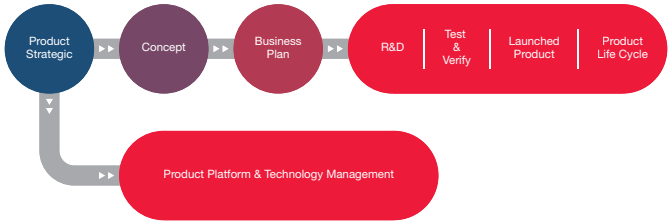
## How We Make the Differences

## Partners

# 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 16 years mature experience of manufacturing processes
- Two manufacturing bases in Shenzhen and Suzhou.
- With smart manufacturing production line: Automatic integration line, automatic integrated spraying line, AGV automatic material distribution and storage system.
- Using advanced supply chain management model, strict quality management system, efficient operation, perfect production, timely application.

- 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
- The products are insured by well-known international property insurance company (AIG) for Products/Completed Operations Liability insurance.

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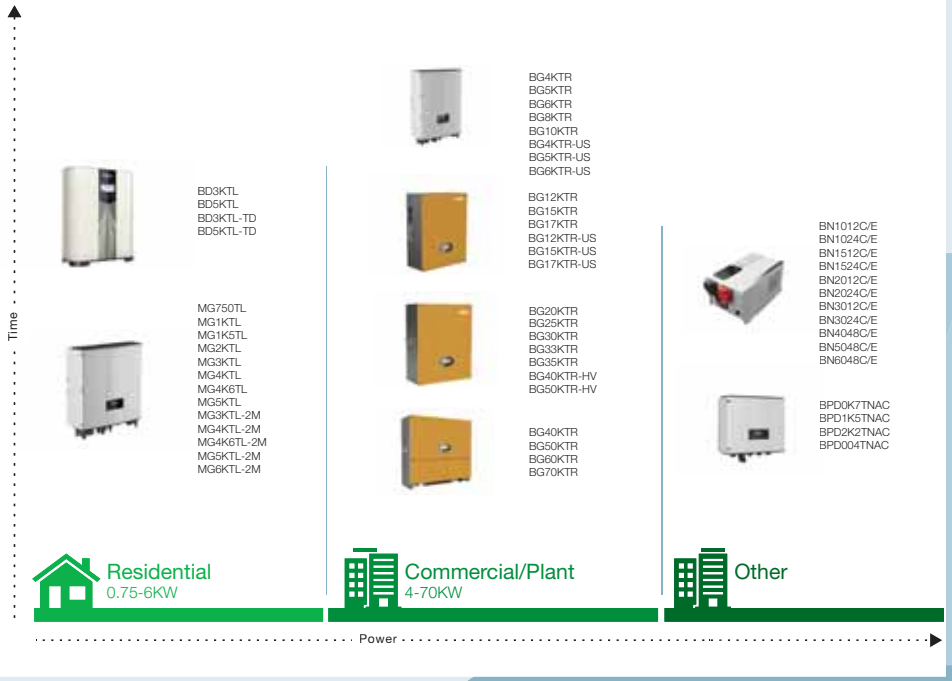
## Product Family

# iMars Inverter




# Monitoring Products

**Product**

Handheld HMI



Data Webbox



Wifi 200 / GPRS200

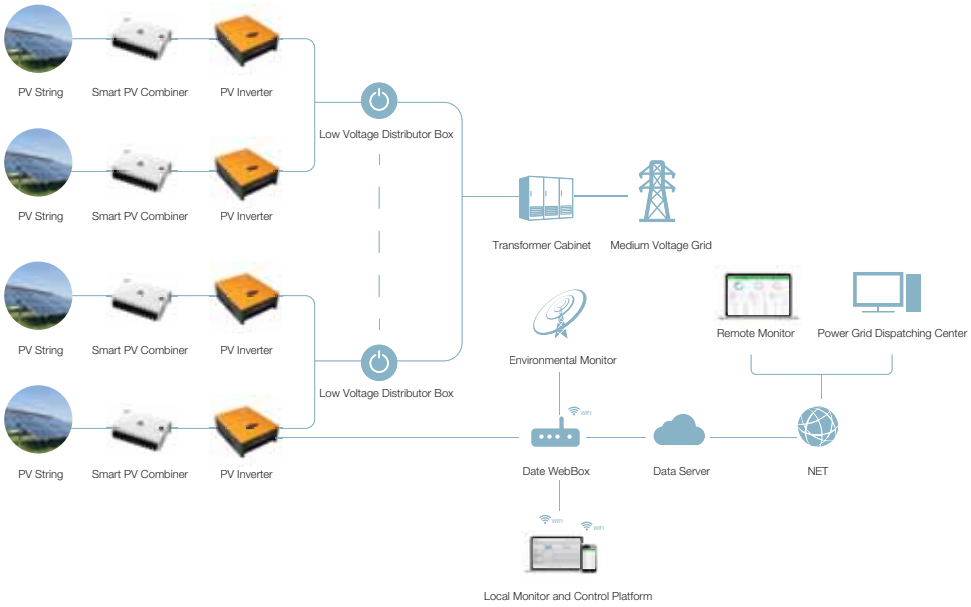
**Software**

InfoExpert / PhoneExpert

**Platform**

SysExpert

## Solution for PV Plant



# 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 | 450/300 | 9x1 | 1200 |
| MG1K5TL | | 10x1 | 1700 |
| MG2KTL | | 12x1 | 2200 |
| MG3KTL | 500/360 | 15x1 | 3300 |
| MG4KTL | 600/360 | 19x1 | 4800 |
| MG4K6TL | | 21x1 | 5520 |
| MG5KTL | | 23x1 | 6000 |
| MG3KTL-2M | | 9x2 | 3600 |
| MG4KTL-2M | | 12x2 | 4800 |
| MG4K6TL-2M | | 13x2 | 5520 |
| MG5KTL-2M | | 15x2 | 6000 |
| MG6KTL-2M | | 16x2 | 6300 |
| BG4KTR | 900/580 | 10x2 | 4800 |
| BG4KTR-S | | 12x1 | 4800 |
| BG5KTR | | 10x2 | 5700 |
| BG5KTR-S | | 12x1 | 5700 |
| BG6KTR | | 10x2 | 7200 |
| BG8KTR | 1000/580 | 12x2 | 9000 |
| BG10KTR | | 12.5x2 | 11000 |
| BG12KTR | 1000/610 | 19x2 | 14000 |
| BG15KTR | | 21x2 | 18000 |
| BG17KTR | | 23x2 | 19500 |
| BG20KTR | | 25x2 | 20800 |
| BG25KTR | | 30x2 | 28000 |
| BG30KTR | | 33x2 | 33000 |
| BG33KTR | | 33x2 | 36000 |
| BG35KTR | | 33x2 | 38000 |
| BG40KTR-HV | | 33x2 | 42800 |
| BG50KTR-HV | 1100/750 | 42x2 | 53000 |
| BG40KTR | 1100/740 | 74x1 | 55000 |
| BG50KTR | | 90x1 | 66000 |
| BG60KTR | | 120x1 | 72000 |
| BG70KTR | | 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 |
| BG9KTR-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

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.

### Monitoring solution:

Handheld HMI

WiFi 200
GPRS 200

PhoneExpert
InfoExpert
Monitoring Center

SysExpert



## Specification

| | MG750TL | MG1KTL | MG1K5TL | MG2KTL | MG3KTL |
|---|---|---|---|---|---|
| Input (DC) | | | | | |
| 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 | | |
| Output (AC) | | | | | |
| 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) | | |
| System | | | | | |
| 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℃~+60℃ (derate after 45℃) | | |
| 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. | | |
| Display and communication | | | | | |
| Display | | | LCD (standard) / LED (optional) | | |
| LCD language | | | English, Chinese, German, Dutch | | |
| Communication interface | | | RS485 (standard)；WiFi、GPRS200 (optional) | | |
| Mechanical parameters | | | | | |
| Dimension (H x W x D mm) | | | 280x300x138 | | |
| Weight (kg) | | | ≤9.5 | | |
| Installation | | | Wall mounting | | |
| Others | | | | | |
| 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

**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.

### Monitoring solution:

Handheld HMI

WiFi 200
GPRS 200

PhoneExpert
InfoExpert
Monitoring Center

SysExpert



## Specification

| | MG4KTL | MG4K6TL | MG5KTL |
|---|---|---|---|
| Input (DC) | | | |
| 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 | | |
| Output (AC) | | | |
| 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) | | |
| System | | | |
| 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℃~+60℃( derate after 45℃) | | |
| 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. | | |
| Display and communication | | | |
| Display | LCD (standard) / LED( optional) | | |
| LCD language | English, Chinese, German, Dutch | | |
| Communication interface | RS485 (standard) ; WiFi, GPRS200( optional) | | |
| Mechanical parameters | | | |
| Dimension (H x W x D mm) | 405×360×150 | | |
| Weight (kg) | ≤15 | | |
| Installation | Wall mounting | | |
| Others | | | |
| 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

**Efficient**

- 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, 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.

### Monitoring solution:

Handheld HMI

WiFi 200
GPRS 200

PhoneExpert
InfoExpert
Monitoring Center

SysExpert

## Specification

| | MG3KTL-2M | MG4KTL-2M | MG4K6TL-2M | MG5KTL-2M | MG6KTL-2M |
|---|---|---|---|---|---|
| Input (DC) | | | | | |
| 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) / Rated input voltage(V) | 120-550/360 | | | | |
| 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 | | | | |
| Output (AC) | | | | | |
| 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) | | | | |
| System | | | | | |
| 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℃~+60℃( derate after 45℃) | | | | |
| 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. | | | | |
| Display and communication | | | | | |
| Display | LCD (standard) / LED( optional) | | | | |
| LCD language | English, Chinese, German, Dutch | | | | |
| Communication interface | RS485 (standard) ; WiFi, GPRS200( optional) | | | | |
| Mechanical parameters | | | | | |
| Dimension (H x W x D mm) | 460x360x150 | | | | |
| Weight (kg) | ≤18 | | | | |
| Installation | Wall mounting | | | | |
| Others | | | | | |
| 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 | | | | |
| Safe certificates / EMC certificates | IEC 62109-1:2010, IEC 62109-2 : 201, 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

**Efficient**

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

**Smart**

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

**Reliable**

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

**Simple**

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

### Monitoring solution:

WiFi 200
GPRS 200

PhoneExpert
InfoExpert
Monitoring Center

SysExpert





## Specification

| | BG4KTR | BG4KTR-S | BG5KTR | BG5KTR-S | BG6KTR | BG8KTR | BG10KTR |
|---|---|---|---|---|---|---|---|
| **Input (DC)** | | | | | | | |
| 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)/ Rated input voltage(V) | 200-800/580 | | | | | 200-800/610 | |
| 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 | | | | | | |
| **Output (AC)** | | | | | | | |
| 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) | | | | | | |
| **System** | | | | | | | |
| 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℃~+60℃( derate after 45℃) | | | | | | |
| 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 | |
| **Display and communication** | | | | | | | |
| Display | 2.0 inches LCD display, support backlit display | | | | | | |
| LCD language | English, Chinese, German, Dutch | | | | | | |
| Keyboard | Integrated | | | | | | |
| Communication interface | RS485 (standard); WiFi, GPRS200( optional) | | | | | | |
| **Mechanical parameters** | | | | | | | |
| Dimension (H x W x D mm) | 530x360x150 | | | | | 575x360x150 | |
| Weight (kg) | 20 | | | | | 23 | |
| Installation | Wall mounting | | | | | | |
| **Others** | | | | | | | |
| DC terminal | Waterproof terminals | | | | | | |
| Grid qualification | IEC 61727( IEC62116) , IEC 60068-2-1: 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


**Efficient**

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

**Smart**

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

**Reliable**

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

**Simple**

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

### Monitoring solution:

WiFi 200
GPRS 200

PhoneExpert
InfoExpert
Monitoring Center

SysExpert



## Specification

| | BG12KTR | BG15KTR | BG17KTR |
|---|---|---|---|
| Input (DC) | | | |
| 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 | | |
| Output (AC) | | | |
| 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) | | |
| System | | | |
| 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℃~+60℃( derate after 45℃) | | |
| 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 | | |
| Display and communication | | | |
| Display | 3.5 inches LCD display, support backlit display | | |
| LCD language | English, Chinese, German, Dutch | | |
| Keyboard | Integrated | | |
| Communication interface | RS485 (standard); WiFi, GPRS200 (optional) | | |
| Mechanical parameters | | | |
| Dimension (H x W x D mm) | 610x480x230 | | |
| Weight (kg) | 38 | | |
| Installation | Wall mounting | | |
| Others | | | |
| 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


**Efficient**

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

**Smart**

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

**Reliable**

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

**Simple**

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

### Monitoring solution:

WiFi 200
GPRS 200

PhoneExpert
InfoExpert
Monitoring Center

SysExpert





## Specification

| | BG20KTR | BG25KTR | BG30KTR | BG33KTR | BG35KTR | BG40KTR-HV | BG 50KTR-HV |
|---|---|---|---|---|---|---|---|
| **Input (DC)** | | | | | | | |
| 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 | | | | | | |
| **Output (AC)** | | | | | | | |
| 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, (357~483V) | 3/N/PE,277/480V, (384~552V) | 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) | | | | | | |
| **System** | | | | | | | |
| 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℃~+60℃( derate after 45℃) | | | | | | |
| 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 | | | | | | |
| **Display and communication** | | | | | | | |
| 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) |
| **Mechanical parameters** | | | | | | | |
| Dimension (H x W x D mm) | 660x520x250 | | | | | | 645x660x425 |
| Weight (kg) | 52 | | | | | | 57 |
| Installation | Wall mounting | | | | | | |
| **Others** | | | | | | | |
| 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, 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

**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.

### Monitoring solution:

WiFi 200
GPRS 200

PhoneExpert
InfoExpert
Monitoring Center

SysExpert





## Specification

| | BG40KTR | BG50KTR | BG60KTR | BG70KTR |
|---|---|---|---|---|
| Input (DC) | | | | |
| 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 | | | |
| Output (AC) | | | | |
| 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) | | | |
| System | | | | |
| 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℃~+60℃( derate after 45℃) | | | |
| 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 | | | |
| Display and communication | | | | |
| 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) | | | |
| Mechanical parameters | | | | |
| Dimension (H x W x D mm) | 810X645X235 | | | |
| Weight (kg) | 53 | | | |
| Installation | Wall mounting | | | |
| Others | | | | |
| DC terminal | Waterproof terminals, PC(optional) | | | |
| Grid qualification | NB/T 3200-2013,TUV,CE,VDE0126-1-1,VDE-AR-N4105,G59/3,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) | | | |

# iMars BG

## Three phase Grid-tied Solar inverters for US

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

**Efficient**

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

**Smart**

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

**Reliable**

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

**Simple**

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

### Monitoring solution:

WiFi 200
GPRS 200

PhoneExpert
InfoExpert
Monitoring Center

SysExpert





## Specification

| | BG4KTR-US | BG5KTR-US | BG6KTR-US |
|---|---|---|---|
| Input (DC) | | | |
| Max. DC voltage (V) | 1000 | | |
| Starting Voltage (V) | 200 | | |
| Min. Operation Voltage (V) | 180 | | |
| MPPT Operating Voltage Range (V) / Rated input voltage(V) | 180 - 800/610V | | |
| Rated power voltage range (V) | 220 - 800 | | |
| Number of MPPT / String Per MPPT | 2/2 | | |
| Max. DC Power (W) | 4400 | 5300 | 6300 |
| Max. DC Current (A) Per MPPT x Number Of MPPT | 10 x 2 | 14 x 2 | 19 x 2 |
| DC switch | Integrated | | |
| Output (AC) | | | |
| Rated power (W) | 4000 | 5000 | 6000 |
| Max AC Current (A) | 12 | 15 | 18 |
| Rated AC Voltage | 3/PE, 220V/127V | | |
| Rated Grid frequency | 60Hz (57~61.5Hz) | | |
| Power factor | -0.8~+0.8 (Adjustable) | | |
| THD | < 3% (at rated power) | | |
| AC connection | Three-phase (L1, L2, L3, PE) or (L1, L2, L3, N, PE) | | |
| System | | | |
| Cooling method | Natural cooling | Smart cooling | |
| Max efficiency | 97.60% | 97.80% | 98.20% |
| Euro-efficiency | 97.00% | 97.30% | 97.60% |
| MPPT efficiency | 99.9% | | |
| Degree of protection | IP65 | | |
| Self-consumption (at night) | <1(W) | | |
| Topology | Transformerless | | |
| Operating temperature range | -25℃~+60℃ (derate after 45℃) | | |
| Relative humidity | <30dB | <50dB | |
| Protection | DC isolation monitoring, DC monitoring, grounding fault monitoring, grid monitoring, island protection, overvoltage and short circuit protection, etc. | | |
| Display and communication | | | |
| Display | 3.5inches LCD display, support backlit display | | |
| System language | English, Chinese, German, Dutch | | |
| Communication interfaces: | RS485 (Standard), GPRS200, WiFi (Optional) | | |
| Mechanical parameters | | | |
| Dimension (H x W x D mm) | 530x360x150 | | |
| Weight (kg) | 20 | | |
| Installation | Wall mounting | | |
| Others | | | |
| DC terminal | BC03A, BC03B ( PV-FT-CF-C-4-300-BU (-); PV-FT-CM-C-4-300-RD (+), Helios H4 4mm² ) | | |
| Factory warranty (years) | 5 (standard) / 10, 15, 20 (optional) | | |

# iMars BG

## Three phase Grid-tied Solar inverters for US

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


**Efficient**

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

**Smart**

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

**Reliable**

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

**Simple**

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

### Monitoring solution:

WiFi 200
GPRS 200

PhoneExpert
InfoExpert
Monitoring Center

SysExpert





## Specification

| | BG7KTR-US | BG9KTR-US | BG10KTR-US | BG12KTR-US | BG15KTR-US | BG17KTR-US |
|---|---|---|---|---|---|---|
| Input (DC) | | | | | | |
| Max. DC voltage (V) | 1000 | | | | | |
| Starting Voltage (V) | 200 | | | | | |
| Min. Operation Voltage (V) | 180 | | | 280 | | |
| MPPT Operating Voltage Range (V) / Rated input voltage(V) | 180-800/610V | | | 280-800/610V | | |
| Rated power voltage range (V) | 220 - 800 | 240 - 800 | | 320 - 800 | | |
| Number of MPPT / String Per MPPT | 2/3 | | | 2/4 | | |
| Max. DC Power (W) | 7300 | 9400 | 10500 | 12400 | 15400 | 17400 |
| Max. DC Current (A) Per MPPT x Number Of MPPT | 19 x 2 | 21 x 2 | 23 x 2 | 25 x 2 | 30 x 2 | 33 x 2 |
| DC switch | Integrated | | | | | |
| Output (AC) | | | | | | |
| Rated power (W) | 7000 | 9000 | 10000 | 12000 | 15000 | 17000 |
| Max AC Current (A) | 20 | 25 | 28 | 34 | 42 | 48 |
| Rated AC Voltage | 3/PE, 220V/127V | | | | | |
| Rated Grid frequency | 60Hz (57~61.5Hz) | | | | | |
| Power factor | -0.8~+0.8 (Adjustable) | | | | | |
| THD | < 3% (at rated power) | | | | | |
| AC connection | Three-phase (L1, L2, L3, PE) or (L1, L2, L3, N, PE) | | | | | |
| System | | | | | | |
| Cooling method | Smart cooling | | | | | |
| Max efficiency | 98.20% | 98.30% | 98.30% | 98.30% | 98.30% | 98.40% |
| Euro-efficiency | 97.60% | 97.80% | 97.80% | 97.80% | 97.80% | 98.00% |
| MPPT efficiency | 99.9% | | | | | |
| Protection | IP65 | | | | | |
| Self-consumption (at night) | <0.5(W) | | | <1(W) | | |
| Topology | Transformerless | | | | | |
| Operating temperature range | -25℃~+60℃ (derate after 45℃) | | | | | |
| Relative humidity | <50dB | | | | | |
| Protection | DC isolation monitoring, DC monitoring, grounding fault monitoring, grid monitoring, island protection, overvoltage and short circuit protection, etc. | | | | | |
| Display and communication | | | | | | |
| Display | 3.5inches LCD display, support backlit display | | | | | |
| System language | English, Chinese, German, Dutch | | | | | |
| Communication interfaces: | RS485 (Standard), GPRS200, WiFi (Optional) | | | | | |
| Mechanical parameters | | | | | | |
| Dimension (H x W x D mm) | 610x480x230 | | | 660x525x220 | | |
| Weight (kg) | 38 | | | 52 | | |
| Installation | Wall mounting | | | | | |
| Others | | | | | | |
| DC terminal | BC03A, BC03B ( PV-FT-CF-C-4-300-BU (-); PV-FT-CM-C-4-300-RD (+), Helios H4 4mm² ) | | | | | |
| Factory warranty (years) | 5 (standard) / 10, 15, 20 (optional) | | | | | |

# Hybrid Inverter

BD3KTL / 5KTL / 3KTL- TD / 5KTL- TD


**Efficient**

- Professional BMS battery management system, lead-acid battery and lithium iron are compatible.
- Setting battery charging current available according to different battery type.
- Combination of grid and off grid inverter, it not only reserve surplus power on grid status, but also using as UPS when off grid.
- Modular battery design for easy extension.

**Smart**

- Friendly HMI, LCD color screen.
- Equipped with variety of communication ways: RS485 (standard), USB (standard), GPRS200 (standard), Wifi (optional), diesel communication interface (optional).

**Reliable**

- With grid anti feedback function.
- Perfect after-sale service.
- Insured by well-known international property insurance company (AIG) for Products /Completed Operations Liability Insurance.

## Monitoring solution:

WiFi 200
GPRS 200

PhoneExpert
InfoExpert
Monitoring Center





## Specification

| | BD3KTL | BD5KTL | BD3KTL-TD | BD5KTL-TD |
|---|---|---|---|---|
| DC input (PV) | | | | |
| Max. DC input power (W) | 3300 | 6600 | 3300 | 6600 |
| Max. DC input voltage(V) | 500 | | | |
| Starting voltage (V) / Min. operation voltage (V) | 100/80 | | | |
| MPPT Range (V) | 120~450 | | | |
| Max. input current (A) | 13A | 13A×2 | 13A | 13A×2 |
| Number of MPPT /String per MPPT | 1/1 | 2/1 | 1/1 | 2/1 |
| Short circuit current (A) | 15.6 | 15.6×2 | 15.6 | 15.6×2 |
| AC output 1 (grid) | | | | |
| Rated power (W) | 3000 | 4600 | 3000 | 4600 |
| Rated grid voltage (V) | 208/220/230/240 (single phase) | | | |
| Rated grid frequency (Hz) | 50/60 | | | |
| Grid voltage range (V) | 180~270 | | | |
| Grid voltage frequency (Hz) | 45~55/55~65 | | | |
| Rated output current (A) | 13 | 20 | 13 | 20 |
| Power factor | ≥0.99 (±0.95adjustable) | | | |
| THDi | ≤3%(ar rated power) | | | |
| Max. efficiency | 97.20% | 97.70% | 97.20% | 97.70% |
| Euro-efficiency | 96.50% | 97% | 96.50% | 97% |
| AC output 2 (Load) | | | | |
| Rated output power (kw/kvA) | 3000 | 4600 | 3000 | 4600 |
| Rated output voltage (V) | 208/220/230/240 (±2%) | | | |
| Rated output frequency (Hz) | 50/60 (±0.2%) | | | |
| Off-network switching time | ≤20ms | | | |
| Voltage harmonic distortion | ≤3%(rated power) | | | |
| Peak power/duration | 150%/10S | | | |
| Battery | | | | |
| Rated voltage (V) | 48 | | | |
| Voltage range(settable) (V) | 40-60 | | | |
| Battery type | Lithium battery or Lead-acid battery | | | |
| Battery capacity | / | | 2.4kWh-12kWh(adjustable) | |
| Max. charging current(settable) (A) | 60 | 100 | 60 | 100 |
| Max. discharging current(settable)(A) | 60 | 100 | 60 | 100 |
| Max. efficiency | 94% | | | |
| Others | | | | |
| Isolation method (photovoltaic side) | Not isolation | | | |
| Isolation method (battery side) | High-frequency isolation | | | |
| Range of working temperature | -10°C ~ +40°C | | -25 ~ +50℃ (40℃derating begins) | |
| Cooling method topology | Air cooling | | | |
| Degree of protection / Altitude (m) | IP20 / <1000m; | | IP54/<1000m; | |
| Relative humidity | 0~95%, no condensation | | | |
| Noise (dB) | ≤50 | | | |
| Protection | PV array insulation protection, PV array leakage current protection, Ground fault monitoring,Grid monitoring, Island protection, DC monitoring, Short current protection etc. | | | |
| Display | LCD | | | |
| Communication interface | RS485(standard), Wifi(optional), GPRS(optional), CAN-BUS(internal communication), USB, Genset | | | |
| Dimension (H x W x D mm) | 610x425x190 | | 1300x650x440 | |
| Weight (kg) | 19 | | 99 | |
| Installation | Wall mounting | | Standing | |
| Grid standard | VDE-AR-N4105, AS/NZS 4777.2:2015, NB/T 32004-2013 | | | |
| Ground fault alarm | Built-in buzzer | | | |
| Safe certificate /EMC certificates | IEC 62109-1：2010, IEC 62109-2：2011, EN 61000-6-2: 2005 | | | |
| Factory warranty (years) | 1(standard) / 3 (optional) | | | |

# iMars BN
# single-phase off-grid Inverter

BN1012C / 1024C / 1512C / 1524C/ 2012C / 2024C( E)

Efficient

- Multiple charging voltage grades to adapt to more battery topology, to maximize battery performance.
- Multiple working mode are optional for different working priority (Grid / battery / energy saving mode).
- Electricity bypass quick charging function.
- Solar panel MPPT charging technology.

Smart

- User-friendly multiple communication module (RS485, RS232, CAN, GPRS, WiFi) are optional to be compatible with more monitoring device: mobile, computer, internet/remote operation.

Reliable

- Over-load and short-circuit protection.
- Capable of providing the continuous power to linear load or not-linear load of lamp, computer, fridge, air-conditioner, fans, and household appliances and industrial power.
- Insured by well-known international property insurance company (AIG) for Products /Completed Operations Liability Insurance.

Monitoring solution:

PhoneExpert
InfoExpert
Monitoring Center





## Specification

| | BN1012C/E | BN1024C/E | BN1512C/E | BN1524C/E | BN2012C/E | BN2024C/E |
|---|---|---|---|---|---|---|
| **Line mode** | | | | | | |
| AC input voltage (V) | 220/230/240 | | | | | |
| AC output voltage range (V) | 155~272 (±2%) | | | | | |
| Rated frequency (Hz) | 50HZ/ 60HZ (auto detection) | | | | | |
| Frequency range (Hz) | 47+0.3Hz ~ 55+0.3Hz for 50Hz; ( 57+0.3Hz ~ 65+0.3Hz for 60Hz) | | | | | |
| Over-load/Short-circuit protection | Circuit breaker | | | | | |
| Efficiency | >95% | | | | | |
| Transfer time (ms) | (AC to DC or DC to AC):10ms (typical) | | | | | |
| Bypass relay current (A) | 30 | | | | | |
| **Invert mode** | | | | | | |
| Output voltage waveform | Sine wave | | | | | |
| Rated output power (VA)/(W) | 1000/1000 | | 1500/1500 | | 2000/2000 | |
| Power factor | 1 | | | | | |
| Rated output voltage (V) | 220/230/240(±10%) | | | | | |
| Rated Output frequency (Hz) | 50Hz ±0.3Hz/60Hz ± 0.3Hz | | | | | |
| Efficiency | >88% | | | | | |
| Over-load protection | (110%<load<125%) ±10%: Fault(shutdown output) after 15min; (125%<load<150%) ±10%: Fault(shutdown output) after 60s;load>150% ±10%:Fault(shutdown output) after 20s | | | | | |
| Peak power (10s) (VA) | 3000 | | 4500 | | 6000 | |
| Capable of starting eletric motor (HP) | 1 | | | | | |
| Output short-circuit protection | Current limit (Fault after 10s) | | | | | |
| Output breaker current (A) | 10 | | | | 30 | |
| DC input voltage (V)/ Min. DC start voltage (V) | 12VDC mode:12/11; 24VDC mode:24/22 | | | | | |
| DC input voltage range (V) | 10.0~16.0, ±0.6Vdc: 12VDC mode(*2 is 24VDCinput mode,*4 is 48VDC input mode) ( 12VDC mode: low alarm: 10.5V; shut down: 10V; high fault: 16V; high recovery: 15.5V) | | | | | |
| Main operating mode | 0-6 level: electricity first; 7-9 level battery first | | | | | |
| **Charge (Line)** | | | | | | |
| Charge current (A) | 35 | 20 | 45 | 25 | 65 | 35 |
| Charge current regulation (A) | ± 5 | | | | | |
| Battery voltage range (V) | 12VDC mode: 10-15.7; 24VDC mode: 20~31.4 | | | | | |
| Charge short-circuit protection | Circuit breaker | | | | | |
| Breaker current (A) | 10 | | | | 30 | |
| Over charge protection | Bat. V ≥ 15.7 is 12VDC mode,(*2 is 24VDC input mode,*4is 48VDC mode)every 1s & fault after 60s | | | | | |
| **Charge (Solar) (E series is not included)** | | | | | | |
| MPPT voltage range (V) | 12VDC mode: 15-55 ; 24VDC mode: 18-78 | | | | | |
| Max. PV input voltage (V) | 12VDC mode: 70 ; 24VDC mode: 100 | | | | | |
| Max. PV open circuit voltage (V) | 12VDC mode: 56 ; 24VDC mode: 80 | | | | | |
| Rated charge current (A) | 45 | | | | | |
| Max. full load charging efficiency | 98% | | | | | |
| Battery short-circuit protection | Fuse | | | | | |
| Solar panel wiring protection | Anti reverse connecting protection | | | | | |
| **Others** | | | | | | |
| Dimension (H x W x D mm) | 410 x 264 x 180 | | | | 460 x 264 x 180 | |
| Weight (kg) | 15.7 | 16 | 19.9 | 19 | 21.9 | 22 |
| Degree of protection | IP20 (forced air, variable speed fan) | | | | | |
| Operating temperature range | -15°C to 40°C (-25°C~60°C for storage) | | | | | |
| Relative humidity | 5% to 95% | | | | | |
| Communication interface | RS-485/GPRS/WiFi | | | | | |
| Safe certificate / EMC certificates | CE (EN62040-1, EN62040-2) / C2 | | | | | |
| Factory warranty (years) | 1 | | | | | |

# iMars BN
# single-phase off-grid Inverter

BN3012C / 3024C / 4048C / 5048C / 6048C( E)

Efficient

- Multiple charging voltage grades to adapt to more battery topology, to maximize battery performance.
- Multiple working mode are optional for different working priority (Grid / battery / energy saving mode).
- Electricity bypass quick charging function.
- Solar panel MPPT charging technology.

Smart

- User-friendly multiple communication module (RS485, RS232, CAN, GPRS, WiFi) are optional to be compatible with more monitoring device: mobile, computer, internet/remote operation.

Reliable

- Over-load and short-circuit protection.
- Capable of providing the continuous power to linear load or not-linear load of lamp, computer, fridge, air-conditioner, fans, and household appliances and industrial power.
- Insured by well-known international property insurance company (AIG) for Products /Completed Operations Liability Insurance.

Monitoring solution:

PhoneExpert
InfoExpert
Monitoring Center





## Specification

| | BN3012C/E | BN3024C/E | BN4048C/E | BN5048C/E | BN6048C/E |
|---|---|---|---|---|---|
| **Line mode** | | | | | |
| AC input voltage (V) | 220/230/240 | | | | |
| AC output voltage range (V) | 155~272 ( ± 2%) | | | | |
| Rated frequency (Hz) | 50HZ/ 60HZ (auto detection) | | | | |
| Frequency range (Hz) | 47+0.3Hz ~ 55+0.3Hz for 50Hz; ( 57+0.3Hz ~ 65+0.3Hz for 60Hz) | | | | |
| Over-load/Short-circuit protection | Circuit breaker | | | | |
| Efficiency | >95% | | | | |
| Transfer time (ms) | (AC to DC or DC to AC):10ms (typical) | | | | |
| Bypass relay current (A) | 30 | | 40 | | |
| **Invert mode** | | | | | |
| Output voltage waveform | Sine wave | | | | |
| Rated output power (VA)/(W) | 3000/3000 | | 4000/4000 | 5000/5000 | 6000/6000 |
| Power factor | 1 | | | | |
| Rated output voltage (V) | 220/230/240( ± 10%) | | | | |
| Rated Output frequency (Hz) | 50Hz ± 0.3Hz/60Hz ± 0.3Hz | | | | |
| Efficiency | >88% | | | | |
| Over-load protection | (110%<load<125%) ± 10%: Fault(shutdown output) after 15min; (125%<load<150%) ± 10%: Fault(shutdown output) after 60s;load>150% ± 10%:Fault(shutdown output) after 20s | | | | |
| Peak power (10s) (VA) | 11000 | | 12000 | 15000 | 18000 |
| Capable of starting eletric motor (HP) | 2 | | 3 | 4 | 5 |
| Output short-circuit protection | Current limit (Fault after 10s) | | | | |
| Output breaker current (A) | 30 | | 40 | | |
| DC input voltage (V)/ Min. DC start voltage (V) | 12VDC mode: 12/11 ; 24VDC mode: 24/22 | | 48/ 44 | | |
| DC input voltage range (V) | 10.0~16.0, ±0.6Vdc: 12VDC mode(*2 is 24VDCinput mode,*4 is 48VDC input mode) ( 12VDC mode: low alarm: 10.5V; shut down: 10V; high fault: 16V; high recovery: 15.5V) | | | | |
| Main operating mode | 0-6 level: electricity first; 7-9 level battery first | | | | |
| **Charge (Line)** | | | | | |
| Charge current (A) | 75 | 50 | 35 | 40 | 50 |
| Charge current regulation (A) | ± 5 | | | | |
| Battery voltage range (V) | 12VDC mode: 10-15.7 ; 24VDC mode: 20 - 31.4 | | 40 - 62.8 | | |
| Charge short-circuit protection | Circuit breaker | | | | |
| Breaker current (A) | 30 | | 40 | | |
| Over charge protection | Bat. V ⩾ 15.7 is 12VDC mode,(*2 is 24VDC input mode,*4is 48VDC mode)every 1s & fault after 60s | | | | |
| **Charge (Solar)(E series is not inlucded)** | | | | | |
| MPPT voltage range (V) | 12VDC mode:15-55 ; 24VDC mode:18-78 | | 50-145 | | |
| Max. PV input voltage (V) | 12VDC mode: 70 ; 24VDC mode: 100 | | 200 | | |
| Max. PV open circuit voltage (V) | 12VDC mode:56 ; 24VDC mode:80 | | 145 | | |
| Rated charge current (A) | 45 | | 60 | | |
| Max. full load charging efficiency | 98% | | | | |
| Battery short-circuit protection | Fuse | | | | |
| Solar panel wiring protection | Anti reverse connecting protection | | | | |
| **Others** | | | | | |
| Dimension (H x W x D mm) | 460 x 264 x 180 | | 510x 264 x 180 | 555x 264 x 180 | |
| Weight (kg) | 26.3 | 26 | 28 | 33.5 | 35 |
| Degree of protection | IP20 (forced air, variable speed fan) | | | | |
| Operating temperature range | -15° C to 40° C (-25℃~60℃ for storage) | | | | |
| Relative humidity | 5% to 95% | | | | |
| Communication interface | RS-485/GPRS/WiFi | | | | |
| Safe certificate / EMC certificates | CE (EN62040-1, EN62040-2) / C2 | | | | |
| Factory warranty (years) | 1 | | | | |

# Solar Pumping Inverter

BPD0K7TNAC / 1K5TNAC / 2K2TNAC / 004TNAC

Efficient

- Support driving single-phase motor and three-phase 220V motor.
- One pump inverter can be connected with multiple pumps, support vector control.
- Optional water level detection and diesel engine start/stop module.
- Wider operation voltage range, multi PV strings configuration and modules is possible, save PV module cost.

Smart

- Digital intelligent control can flexibly adjust and set the pump speed range.

Reliable

- IP65 and no fan design, with convenient installation, maintenance free.
- Soft start function, providing lightning protection, overvoltage, over current, overload protection function etc.

## Monitoring solution:

Keypad

WiFi 200
GPRS 200

PhoneExpert
InfoExpert
Monitoring Center

## Specification

| | BPD0K7TNAC | BPD1K5TNAC | BPD2K2TNAC | BPD004TNAC |
|---|---|---|---|---|
| Input (DC) | | | | |
| Max. DC voltage(V) | 450 | | | |
| Starting voltage (V) | 80 | 100 | | |
| Minimum working voltage (V) | 60 | 80 | | |
| MPPT Operating Voltage Range (V) | 80-400 | 100-400 | | |
| Number of MPPT | 1 | | | 2 |
| Max. DC Current (A) | 9 | 12 | | 20 |
| Bypass input (AC) | | | | |
| Input voltage(Vac) | 220/230/240(1PH)-15%+10% | | | |
| Input frequency (Hz) | 47-63 | | | |
| Input connect method | 1P2L(L,N,PE) | | | |
| Output (AC) | | | | |
| Rated power (W) | 750 | 1500 | 2200 | 4000 |
| Rated current (A) | 5.1 (1PH) | 10.2 (1PH) | 14 (1PH) | 25 (1PH) |
| | 4.2 (3PH) | 7.5 (3PH) | 10 (3PH) | 16 (3PH) |
| Output connect method | 1P2L/2P3L/3P/3L | | | |
| Output frequency (Hz) | 1-400 | | | |
| Performance | | | | |
| Control mode | V/F | | | |
| Topology of motor | Asynchronous machine | | | |
| Other parameter | | | | |
| Dimension(HWDmm) | 255×300×137 | | | 410×360×160 |
| Weight (Kg) | 6.4 | 7 | | 13 |
| Degree of protection | IP65 | | | |
| Cooling method | Natural cooling | | | |
| HMMI | LED screen extend(not support LCD screen) | | | |
| Communication | | | | |
| External communication | RS485/3 digital Inputs | | | |
| Certifications | | | | |
| Certification | CE: IEC61800-3 C3 | | | |
| Working environment | | | | |
| Ambient temperature | -25℃~60℃ (derate after 45℃) | | | |
| Working altitude (m) | 3000m (more than 2000m derating) | | | |
| Design life | 5 years(warranty 18months) | | | |
| Recommended solar array configuration | | | | |
| 250Wp (Open-circuit voltage 38V±3V) | 5x1 | 8x1 | 10x1 | 10x2 |
| 300Wp (Open-circuit voltage 45V±3V) | 4x1 | 7x1 | 8x1 | 8x2 |

# Anti-feedback Device

ATF200-A / ATF200-B


## Specification

| Current Transformer | |
|---|---|
| Rated input | 200A |
| Max. detection input | 240A |
| Rated output | 5A |
| Accuracy | ±1% |
| Linearity | ≤0.2% |
| Turns ratio | 1:40 |
| Phase shift | / |
| Max.Sampling resistance | 2 Ω |
| Work voltage | 660V |
| Work frequency | 50/60Hz |
| Operating temperature | - 25℃~+60℃ |
| Storage temperature | - 30℃~+90℃ |
| Dielectric strength 50 Hz 1 min | 3.5KV |
| Fire resistance | UL94-V0 |
| Material of core | Silicon steel sheet |
| Mounting type | Suspension |
| Weight | 204g |

| | Single Phase Energy Meter | Three Phase Energy Meter |
|---|---|---|
| Rated voltage | 230Vac, direct | 3×220Vph-N, direct,3×120Vph-N, direct (optional) |
| Rated (Max.) current | 5(63)A direct | 3×5(6) A/ CT, 3×5(63) direct |
| Input frequency | 50Hz or 60Hz | |
| Power supply | self-supply 230V, (184V-275V) | self-supply, 220V, (176V-275V), 120V, (96V-140V), If only connect 1 phase, RS485 port will not work. |
| Starting current | 0.4%Ib | |
| Power consumption | <2W | <10W |
| Insulating property | Power frequency withstand voltage: AC 2 KV, Impulse withstand voltage: 6KV | |
| Accuracy | Class 1 (IEC 62053-21:2003 ) | |
| Pulse output | 1000imp/kWh | |
| Communication | RS485 output, Modbus-RTU protocol, Address: 1~247, Baudrate: 2400bps, 4800bps, 9600bps | |
| Connection mode | 1-phase 2-wire | 3-phase 4-wire |
| Dimension | 36 × 100 × 65mm | 72×100×65mm |
| Installation mode | Standard 35mm DIN rail | |
| Operating environment | Operating temperature: -20℃~+55℃, Storage temperature: -25℃~+70℃, Relative humidity: 5%~95%,non-condensing | Operating temperature: -10℃~+55℃, Storage temperature: -40℃~+70℃, Relative humidity: 5%~95%, non-condensing |
| Electrostatic discharge immunity test | IEC61000-4-2,Level 4 | |
| Radiated immunity test | IEC61000-4-3,Level 3 | |
| Electrical fast transient/ burst immunity test | IEC61000-4-4,Level 4 | |
| Surge immunity test (1,2/50μs~8/20μs) | IEC61000-4-5,Level 4 | |
| Conducted Emissions | EN55022, Class B | |
| Radiated Emissions | EN55022, Class B | |

## Current Transformer

- Suspension installation, crimp terminal output. Mechanical strength: the number of switching is not less than 1000 times.

## Single Phase Energy Meter

- 35mm DIN installing, in accordance with Standard DIN ED50022.
- Measure and display V, I, P, kWh value, High accuracy, active energy accuracy up to class 1
- LED indicates pulse, Passive pulse output, output signal is in accordance with Standard DIN43864.
- LCD Display, good reliability, compact size, light weight, specious nice appearance and easy installation.

## Three Phase Energy Meter

- High accuracy, active energy accuracy up to class 1
- LED indicates pulse (Settable for kWh or kvarh), 2 Passive pulse output, output signal is in accordance with Standard DIN43864
- Record historical energy for last 31days, last 12 month and last 10 years
- Measure and display U, I, P, PF, F, Hz,kWh, kvarh, Multi-tariff energy value , with good reliability, compact size, light weight, specious nice appearance and easy installation.

# Data WebBox

## Features

- Support up to 16 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

## Specification

| Parameter | |
|---|---|
| Max.Supported Device | 1-16 |
| Inverter Interface | RS-485 |
| Remote Communication interfaces: | GPRS, GPRS200, 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, GPRS200 |
| 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℃ |
| Operating temperature range | -10 ℃~ 65℃ |
| 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 / GPRS200

# Handheld HMI

### Features

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

## Product Description

iMars Wifi200/GPRS200 is an external wireless/wired communication device, whichconnectswith 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).

iMars PhoneExpert (for IOS)

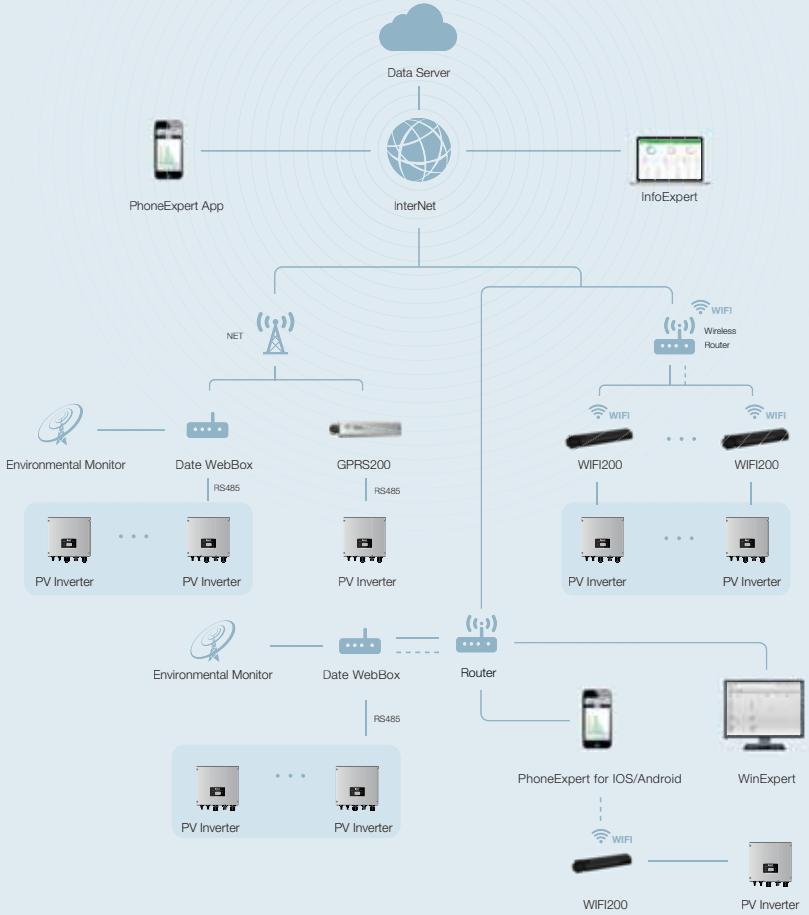
iMars PhoneExpert (for Android)

## Specification

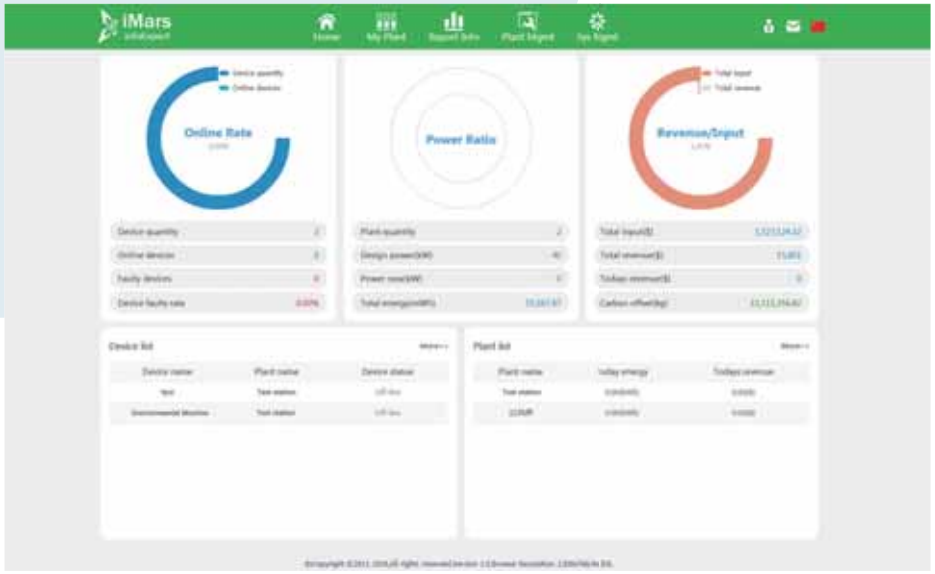
| | |
|---|---|
| Serial Port | RS485 Waterproof Plug |
| WiFi 200 Transmission Distance | 30m(no barrier) |
| GPRS 200 Transmission Distance | unlimited |
| Wireless Protocol Standard | 802.11 n/g/b |
| Operation Temperature | 0℃~+40℃ |
| Working Humidity | 10% – 90% RH (no condensation) |
| Storage Temperature | –40℃~+70℃ |
| Store Humidity | 5% - 90% RH ( no condensation) |
| Size | 139mmx31.7mmx21mm |

# 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.

# Operation & Maintenance Plantform

iMars
WinExpert
(for Windows)

iMars
PhoneExpert

## 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;
- $CO_2$ emission reduction, power generation profit;

# Solar System Design Software

iMars
SysExpert

## 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

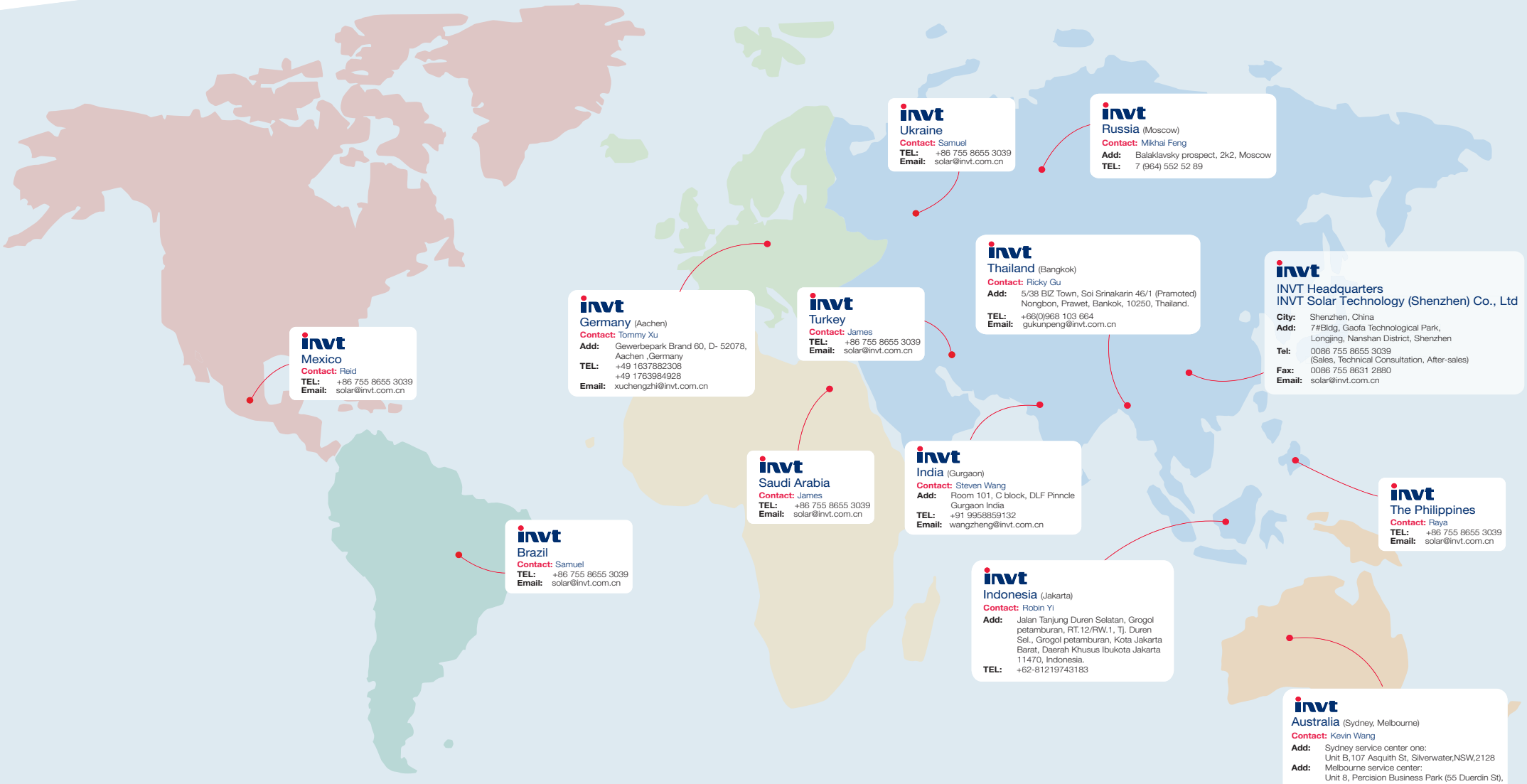
- User-friendly Interface;
- Three-step design process;
- Professional design report;
- Constantly updated database support;
- Powerful system of mathematical analysis model;

# Our service

| 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
- Customer location and contacts



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**Indonesia** (Jakarta)
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TEL: +62-81219743183

**Australia** (Sydney, Melbourne)
Contact: Kevin Wang
Add: Sydney service center one: Unit B,107 Asquith St, Silverwater,NSW,2128
Add: Melbourne service center: Unit 8, Percision Business Park (55 Duerdin St), Notting Hill, VIC 3168
TEL: +61(0)40 650 6055
Email: wangjunqiang@invt.com.cn

# Applications

Location：Australia
Capacity：3kW
Model： MG3KTL

Location：Australia
Capacity：5kW
Model： MG5KTL

Location：Chengde, China
Capacity：2.4MW
Model： MG3KTL

Location：Australia
Capacity：10kW
Model： MG5KTL－2M

Location：Switzerland
Capacity：580kW
Model： BG33KTR

Location：The Netherlands
Capacity：600kW
Model： BG35KTR

Location：Taiwan, China
Capacity：100kW
Model： BG30KTR

Location：The Netherlands
Capacity：210kW
Model： BG30KTR

Location：Australia
Capacity：35kW
Model： MG5KTL

Location：Hunan, China
Capacity：300kW
Model： BG30KTR

Location：Jiangsu, China
Capacity：3MW
Model： BG30KTR

Location：Zhejiang, China
Capacity：2.1MW
Model： BG50KTR

Location：Anhui, China
Capacity：3.2MW
Model： BG50KTR

Location：Australia
Capacity：2.3MW
Model： BG35KTR

Location：Zhejiang, China
Capacity：2.1MW
Model： BG35KTR