

Stock Code: 002334

Top 10 PV Inverter Suppliers

Best Influential Brand in 2018

National High-tech Enterprise

Outstanding Green Contribution Award

Global Top 500 New Energy Enterprises

Industrial and Commercial PV Leading Brand of China

CONTENTS

CONTENTS

About Us.....	1
Company Profile.....	3
Development History.....	5
Our Advantage.....	7
Why INVT Solar.....	9
iMars Inverter	11
Products.....	13
Single Phase Grid-tied Solar Inverter.	13
Three Phase Grid-tied Solar Inverter.....	21
Energy Storage Solar Inverter.....	31
Energy Storage Converter.....	43
Off-grid Inverter.....	47
Ttree off-grid Inverter.....	59
Smart Power Output Control System.....	55
Monitoring Solution.....	57
Monitoring Solution-HOME Version.....	59
Monitoring Solution-PRO Version.....	61
Our Service.....	67
Applications.....	69



Guangming Technology Industrial Park (HQ)

With covering a floor area of 13,800 m² and building area of 34,700 m², 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 is made up of office, R&D, Sales and production with a three-dimensional greening design.



COMPANY PROFILE

- Founded in **2002**, listed in stock in **2010**.
- **12** R&D centers, more than **1050** patents, a laboratory qualified with CNAS, ACT from TUV-SUD, WTDP-UL.
- **16** subsidiaries, **2** manufacturing bases, over **3000** employees.
- Products exported to more than **60** countries and districts.
- **9** Overseas Subsidiaries:
Russia, India, Thailand, UAE, Italy, UK, Germany, Australia, Mexico.
- **Business:**
Grid-tied solar inverter, off-grid inverter, hybrid inverter, energy storage converter, solar pumping inverter, EV charging pile, UPS, etc.

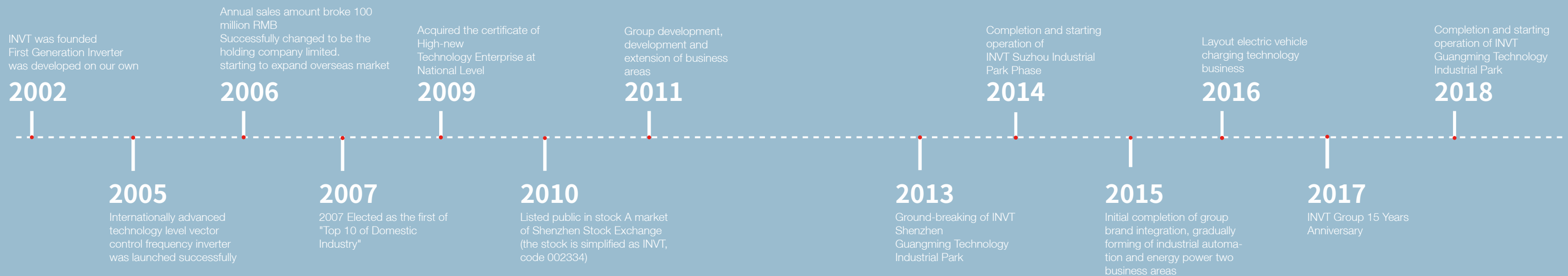
Suzhou Industrial Park

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 m² 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.





Development History



Corporate Culture

- 1 Vision**
To be the globally leading and respected provider for products and services of industrial automation and electric power.
- 2 Mission**
Make all efforts to offer value-added products and services to strengthen client's competitive advantages.



- 3 Core Value**
Work together and keep improving.
- 4 Business Concept**
Sincere, Credit standing, Professional and Ambitious.
- 5 Business Policy**
market-oriented and customer-centric.

Our Advantage

R&D (Research and Development)

INVT regards research and development innovation as vitalities of the company. In order to make the products and solutions of INVT more and more perfect, INVT builds the core competitiveness of the company and creates the value of the customer's society through strategic implementation such as independent innovation, operational excellence management and human resource development. In order to realize the value of technology, the brand and quality of INVT have been achieved.

17 years of technical accumulation

12 R&D centers

8 laboratories

More than 1050 pcs of patents

1050



- The National CNAS Laboratory.
- The UI Eyewitness Laboratory Qualification.
- TUV Eyewitness Laboratory Qualification.
- The First Industrial Control Industry To Add Mark TUV-mark Manufacturers In China.
- The First Industrial Control Industry To Obtain The Act Qualification From TUV In China.



Enterprise Honor

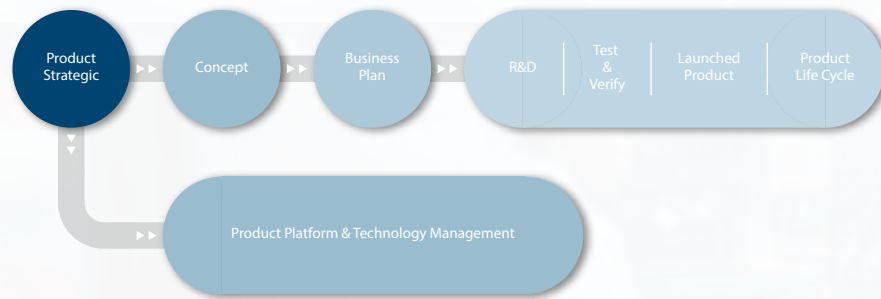
We are not only pursuing honors, but also pursuing customer recognition. Every glory is not only an affirmation but also an inspiration to us. It makes our pace more determined.

- Global Top 500 New Energy Enterprises
- Best Solar-Storage-Charge Integration Solution Award of China's Energy Storage Industry in 2018
- Best Energy Storage Industry Supplier Award of China's Energy Storage Industry in 2018
- National High-tech Enterprise
- Outstanding Green Contribution Award
- Industrial and Commercial PV Leading Brand of China
- Top 10 Most Popular PV Residential System Brands in 2018
- Top 10 Most Popular PV Distributed Inverter Brands in 2018
- Top 10 Most Popular PV Storage Inverter Brand Suppliers in 2018
- CREC Excellent Inverter Enterprise in 2018
- Top 10 PV Inverter Suppliers
- Best Influential Brand in 2018



Why INVT Solar

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



Reliable Product Design

- 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 17 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

- 7x24 service.
- 24 hours quick response.
- The products are insured by well-known international property insurance company (AIG) for Products/Completed Operations Liability insurance.

Suppliers



iMars Inverter

Off-grid	<p>Single Phase Off-grid Inverter</p>  <p>BN1012C/E BN1024C/E BN1512C/E BN1524C/E BN2012C/E BN2024C/E</p>  <p>BN3012C/E BN3024C/E BN4048C/E BN5048C/E BN6048C/E</p> <p>Solar Pumping Inverter</p>  <p>BPD0K7TN(AC) BPD1K5TN(AC) BPD2K2TN(AC) BPD004TNAC BPD2K2TRAC BPD004TRAC BPD5K5TRAC</p>	<p>Single Phase Off-grid Inverter</p>  <p>8-36KW BN4048C-P-N BN5048C-P-N BN6048C-P-N</p> <p>Three Phase Off-grid Inverter</p>  <p>BN30KTR BN50KTR BN100KTR BN120KTR BN150KTR</p>
Energy Storage	<p>Hybrid Inverter</p>  <p>BD3KTL BD5KTL</p> <p>All-in-one Hybrid System</p>  <p>BD3KTL-HS BD5KTL-HS</p> <p>Energy Storage Inverter</p>  <p>BD3KTL-PS</p> <p>Energy Storage Converter</p>  <p>BD3KTL-MR BD4KTL-MR BD5KTL-MR</p> <p>BD3KTL-TD BD5KTL-TD</p>	<p>Three Phase Energy Storage Inverter</p>  <p>BD30KTR BD50KTR BD100KTR BD120KTR BD150KTR</p> <p>Energy Storage Converter</p>  <p>BD50KTR-T BD100KTR-T BD250KTR-T BD500KTR-T BD500KTR BD630KTR</p>
Grid-tied	<p>Single Phase Grid-tied Inverter</p>  <p>MG750TL MG1KTL MG1K5TL MG2KTL MG3KTL</p>  <p>MG4KTL MG4K6TL MG5KTL</p>  <p>MG3KTL-2M MG4KTL-2M MG4K6TL-2M MG5KTL-2M MG6KTL-2M</p> <p>三相并网</p>  <p>BG4KTR BG5KTR BG6KTR BG8KTR BG10KTR</p>	<p>Three Phase Grid-tied Inverter</p>  <p>BG12KTR BG15KTR BG17KTR</p>  <p>BG20KTR BG25KTR BG30KTR BG33KTR BG35KTR BG40KTR-HV BG50KTR-HV</p>  <p>BG40KTR BG50KTR BG60KTR BG70KTR</p>  <p>BD50KTR-LD BD50KTR-LD BD70KTR-LD BD80KTR-MD</p>
 Residential 0.75-10KW		 Commercial/Plant 4-630KW

Monitoring

Module



Handheld HMI



Inverter Logger



Stick Logger
WIFI/GPRS/5G/ETHERNET

Software



Monitoring Platform

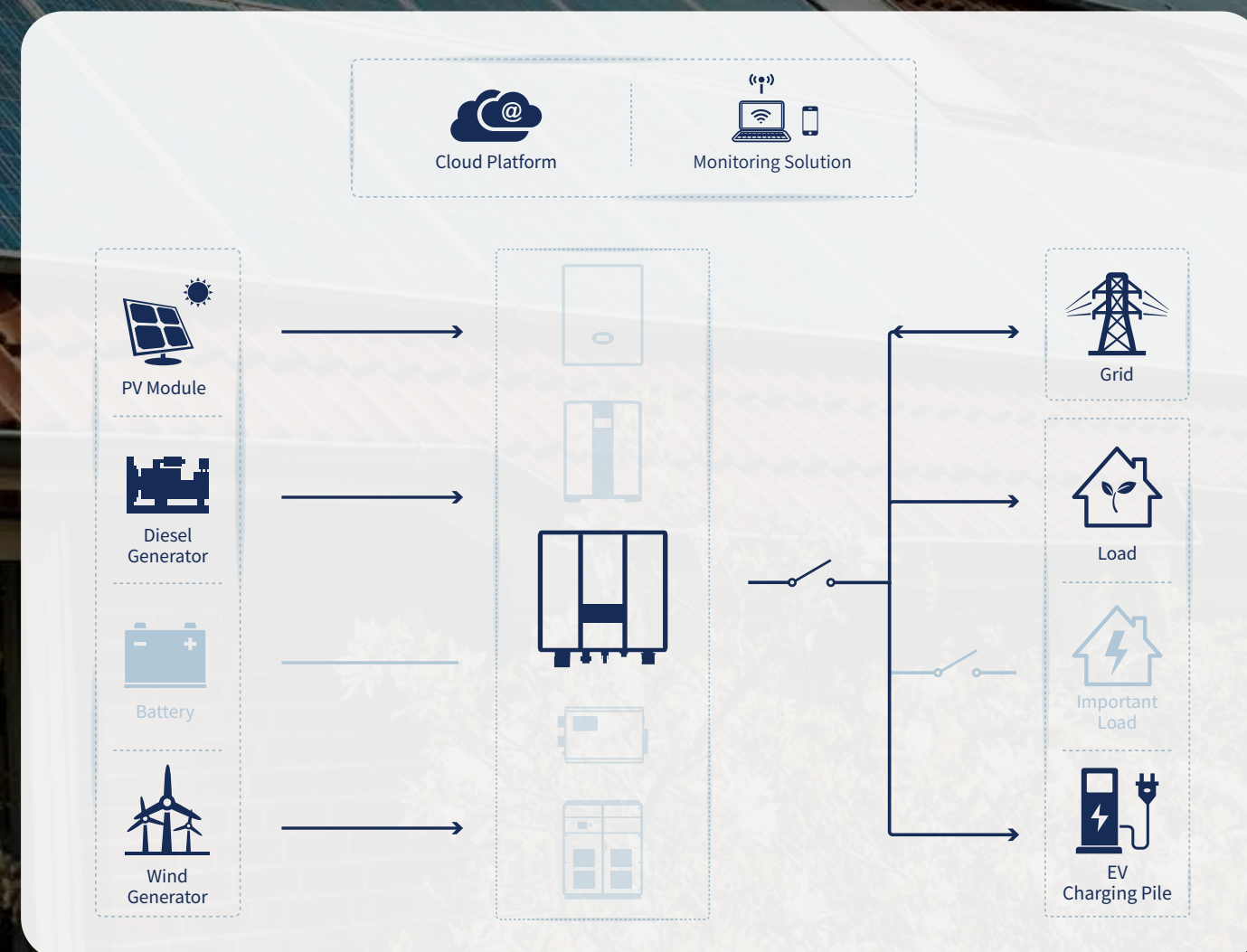
Single Phase Grid-tied Solar Inverter



MG750TL
MG1KTL
MG1K5TL
MG2KTL
MG3KTL

MG4KTL
MG4K6TL
MG5KTL

MG3KTL-2M
MG4KTL-2M
MG4K6TL-2M
MG5KTL-2M
MG6KTL-2M



iMars MG

MG750KTL | MG2KTL
MG1KTL | MG3KTL
MG1K5TL



WiFi
GPRS
5G
ETHERNET



Monitoring
Platform



Monitoring
Solution

Efficient

- Wider voltage range, lower starting voltage and higher conversion efficiency.
- External inductor, reduce internal temperature.

Smart

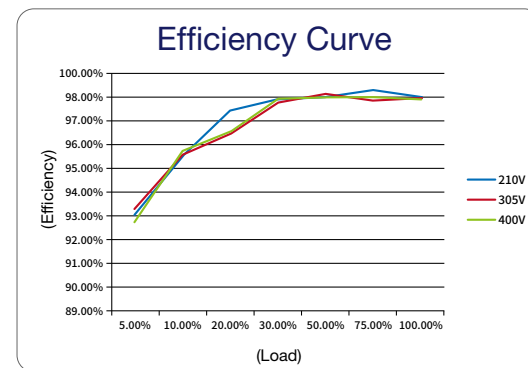
- Grid self-adaptation to meet various grid access requirements.
- Integrated global monitor management, APP with one-button registration, HMI is optional.

Reliable

- Aluminum casing, natural cooling, IP65 protection level.
- International famous brand components to ensure stable operation.

Simple

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



	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)	50-400	60-400	80-410	100-410	120-450
Number of MPPT / String per MPPT			1/1		
Max. DC current (A) per MPPT x Number of MPPT	8x1	9x1	10x1	12x1	15x1
Output (AC)					
Rated output power (W)	750	1000	1500	2000	3000
Max. AC output current (A)	3.6	4.5	6.5	9	13
Power factor			≥0.99(at rated power)		
THDi			<3%(at rated power)		
Nominal output voltage (V) / Frequency			230, L+N+PE, 50Hz/60Hz		
Efficiency					
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					
Protection	DC breaker, AC short-circuit protection, Over current protection, Over voltage protection, Isolation protection, RCD, Surge protection, Anti-island protection, Over-temperature protection, Ground fault monitoring, etc.				
General data					
Display	LED(standard)/LCD (optional)				
LCD language	English, Chinese, German, Dutch				
Communication interface	RS485(standard); WiFi, Ethernet(optional)				
Cooling method	Natural cooling				
Protection degree	IP65				
Night self-consumption (W)	<1				
Topology	Transformerless				
Operating temperature range	-25°C~+60°C(derate after 45°C)				
Relative humidity	4~100%, condensation				
Dimension (H x W x D mm)	280x300x138				
Weight (kg)	≤9.5				
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 61683:1999, C10/11, TF3.2.1				
Safety certificate / EMC certificates	IEC 62109-1:2010, IEC 62109-2:2011, EN 61000-6-2:2005, EN 61000-6-3:2007/A1:2011				
Warranty (years)	5(standard)/10(optional)				

iMars MG

MG4KTL | MG5KTL
MG4K6TLWiFi
GPRS
5G
ETHERNETMonitoring
PlatformMonitoring
Solution

Efficient

- Wider voltage range, lower starting voltage and higher conversion efficiency.
- External inductor, reduce internal temperature.

Smart

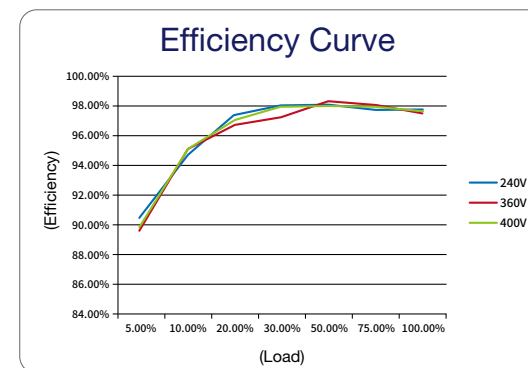
- Grid self-adaptation to meet various grid access requirements.
- Integrated global monitor management, APP with one-button registration, HMI is optional.

Reliable

- Aluminum casing, natural cooling, IP65 protection level.
- International famous brand components to ensure stable operation.

Simple

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



	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)		120-550	
Number of MPPT / String per MPPT		1/2	
Max. DC current (A) per MPPT x Number of MPPT	16x1	18x1	20x1
Output (AC)			
Rated output power (W)	3680	4200	4600
Max. AC output current (A)	16	18.3	20
Power factor		≥0.99(at rated power)	
THDi		<3%(at rated power)	
Nominal output voltage (V) / Frequency		230, L+N+PE, 50Hz/60Hz	
Efficiency			
Max. efficiency	97.70%	97.70%	97.80%
Euro-efficiency	96.70%	96.70%	96.80%
MPPT efficiency		99.90%	
Protection			
Protection	DC breaker, AC short-circuit protection, Over current protection, Over voltage protection, Isolation protection, RCD, Surge protection, Anti-island protection, Over-temperature protection, Ground fault monitoring, etc.		
General data			
Display	LED(standard)/LCD(optional)		
LCD language	English, Chinese, German, Dutch		
Communication interface	RS485(standard); WiFi, Ethernet(optional)		
Cooling method	Natural cooling		
Protection degree	IP65		
Night self-consumption (W)	<1		
Topology	Transformerless		
Operating temperature range	-25°C~+60°C(derate after 45°C)		
Relative humidity	4~100%, condensation		
Dimension (H x W x D mm)	405x360x150		
Weight (kg)	≤15		
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, EC 60068-2-2:2007, IEC 60068-2-14:2009, IEC 60068-2-30:2005, IEC 61683:1999		
Safety certificate /EMC certificates	IEC 62109-1:2010, IEC 62109-2:2011, EN 61000-6-2:2005, EN 61000-6-3:2007/A1:2011		
Warranty (years)	5(standard)/10(optional)		

iMars MG

MG3KTL-2M | MG5KTL-2M
MG4KTL-2M | MG6KTL-2M
MG4K6TL-2M



WiFi
GPRS
5G
ETHERNET



Handheld
HMI



Monitoring
Platform

Efficient

- Wider voltage range, lower starting voltage and higher conversion efficiency.
- External inductor, reduce internal temperature.

Smart

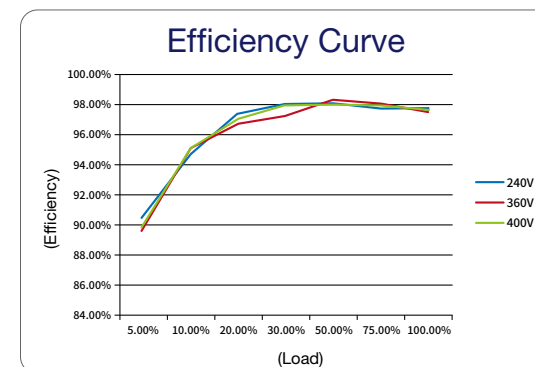
- Grid self-adaptation to meet various grid access requirements.
- Integrated global monitor management, APP with one-button registration, HMI is optional.

Reliable

- Aluminum casing, natural cooling, IP65 protection level.
- International famous brand components to ensure stable operation.

Simple

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



	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)	120-550				
Number of MPPT / String per MPPT	2/1				
Max. DC current (A) per MPPT x Number of MPPT	8x2	10x2	11x2	12x2	16x2
Output (AC)					
Rated output power (W)	3000	3680	4200	4600	6000
Max. AC output current (A)	14	16	18.3	20	26
Power factor	≥0.99(at rated power)				
THDi	<3%(at rated power)				
Nominal output voltage (V) / Frequency	230, L+N+PE, 50Hz/60Hz				
Efficiency					
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					
Protection	DC breaker, AC short-circuit protection, Over current protection, Over voltage protection, Isolation protection, RCD, Surge protection, Anti-island protection, Over-temperature protection, Ground fault monitoring, etc.				
General data					
Display	LED(standard)/LCD(optional)				
LCD language	English, Chinese, German, Dutch				
Communication interface	RS485(standard); WiFi, Ethernet(optional)				
Cooling method	Natural cooling				
Protection degree	IP65				
Night self-consumption (W)	<1				
Topology	Transformerless				
Operating temperature range	-25°C~+60°C(derate after 45°C)				
Relative humidity	4-100%, condensation				
Dimension (H x W x D mm)	462x360x150				
Weight (kg)	≤18				
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 certificate / EMC certificates	IEC 62109-1:2010, IEC 62109-2:2011, EN 61000-6-2:2005, EN 61000-6-3:2007/A1:2011				
Warranty (years)	5(standard)/10(optional)				

Three Phase Grid-tied Solar Inverter

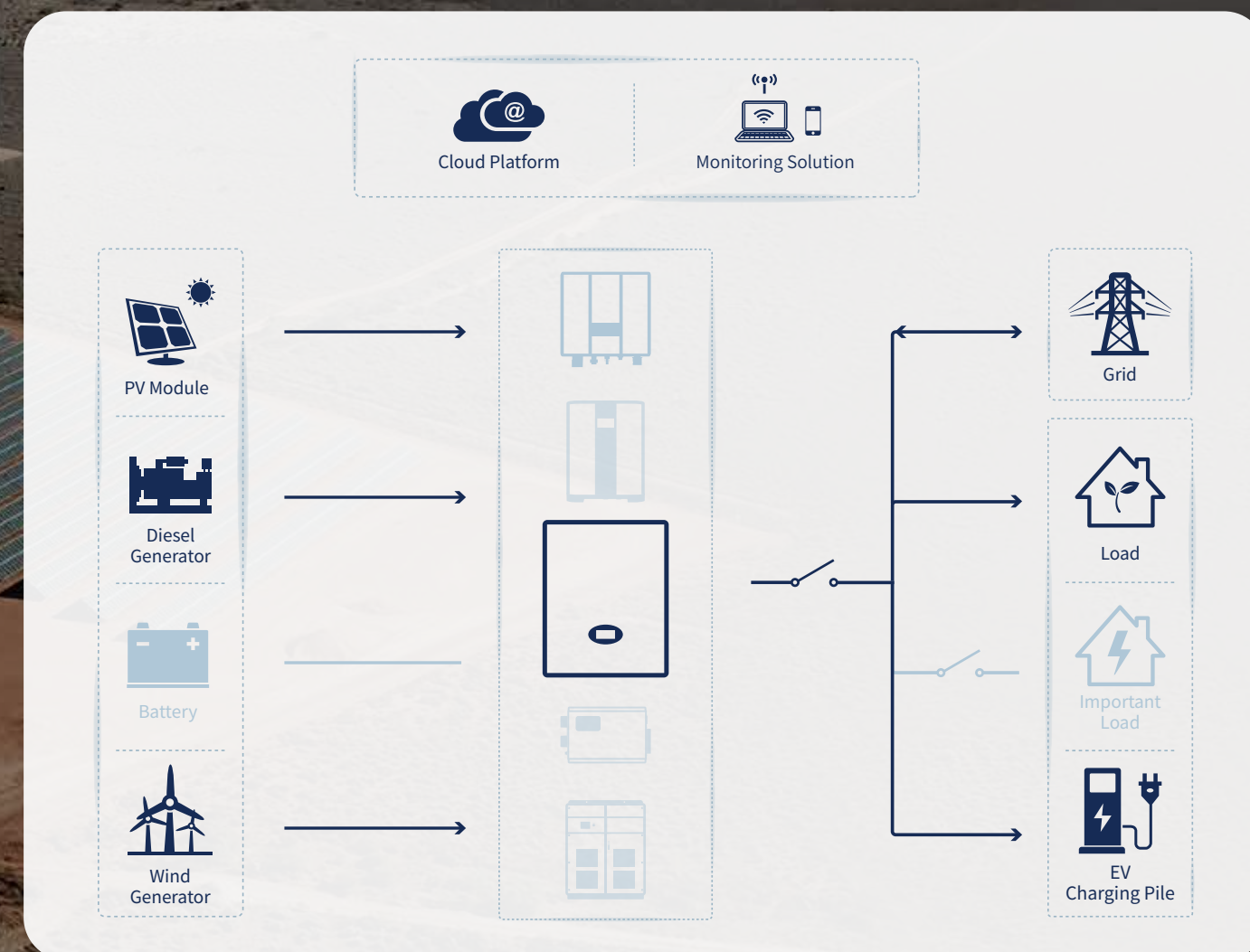


BG4KTR
BG4KTR-S
BG5KTR
BG5KTR-S
BG6KTR
BG8KTR
BG10KTR

BG12KTR
BG15KTR
BG17KTR

BG20KTR
BG25KTR
BG30KTR
BG33KTR
BG35KTR
BG40KTR-HV
BG50KTR-HV

BG40KTR
BG50KTR
BG60KTR
BG70KTR



iMars BG

BG4KTR | BG6KTR
 BG4KTR-S | BG8KTR
 BG5KTR | BG10KTR
 BG5KTR-S



WiFi
GPRS
5G
ETHERNET



Monitoring
Solution

Efficient

- Wider voltage range, lower starting voltage and higher conversion efficiency.
- Adopt combined technology of T-type three level topologies and SVPWM.
- External inductor, reduce internal temperature.

Smart

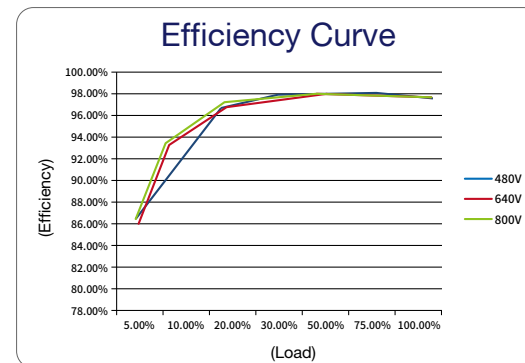
- Grid self-adaptation, no N-line AC design to meet various grid access requirements.
- Integrated global monitor management, APP with one-button registration.

Reliable

- Aluminum casing, natural cooling, IP65 protection level.
- Adopt internationally famous brand components to ensure stable operation.

Simple

- Home appliance design, easy to operate.
- Small in size, light in weight, easy to install by a single person.



	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)	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
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	12.6	14
Power factor	≥0.99(at rated power)						
THDi	<3%(at rated power)						
Nominal output voltage (V) / Frequency	230/400V; 220/380V, 3L+N+PE/3L+PE, 50Hz/60Hz						
Efficiency							
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							
Protection	DC breaker, AC short-circuit protection, Over current protection, Over voltage protection, Isolation protection, RCD, Surge protection, Anti-island protection, Over-temperature protection, Ground fault monitoring, etc.						
General data							
Display	2.0 inches LCD display, support backlit display						
LCD language	English, Chinese, German, Dutch						
Communication interface	RS485(standard); WiFi、Ethernet(optional)						
Cooling method	Natural cooling				Smart cooling		
Protection degree	IP65						
Night self-consumption (W)	<1						
Topology	Transformerless						
Operating temperature range	-25°C~+60°C(derate after 45°C)						
Relative humidity	4~100%, condensation						
Dimension (H x W x D mm)	530x360x150				575x360x150		
Weight (kg)	20				23		
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						
Safety certificate / EMC certificates	IEC 62109-1:2010, IEC 62109-2:2011, EN 61000-6-2:2005, EN 61000-6-3:2007/A1:2011						
Warranty (years)	5(standard)/10(optional)						

iMars BG

BG12KTR | BG17KTR
BG15KTR



WiFi
GPRS
5G
ETHERNET



Monitoring
Platform

Efficient

- Wide input voltage range, adapt to all kinds of solar panels and string configuration.
- Dual MPPTs allow unbalanced input power. One MPPT max. input power is up to 60% of total input.
- Adopt combined technology of T-type three level topologies and SVPWM.

Smart

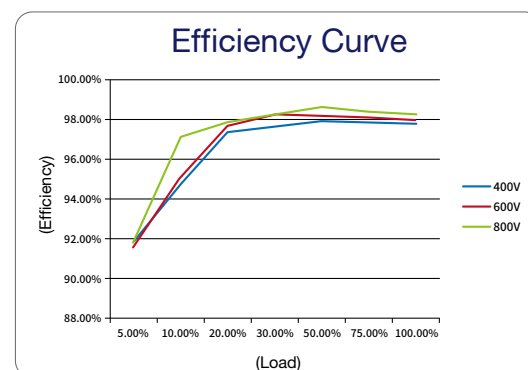
- AC output power is adjustable between 1-100%.
- Grid self-adaptation, no N-line AC design to meet various grid access requirements.
- Integrated global monitor management, APP with one-button registration.

Reliable

- IP65 protection level, suitable for various installation environments.
- Advanced film bus capacitors, latest thermal simulation technology for longer lifespan.

Simple

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



	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)	180-800		
Number of MPPT / String per MPPT	2/2		
Max. DC current (A) per MPPT x Number of MPPT	19x2	21x2	23x2
Output (AC)			
Rated output power (W)	12000	15000	17000
Max. AC output current (A)	19.3	24.1	27.3
Power factor	-0.8~+0.8(adjustable)		
THDi	<3%(at rated power)		
Nominal output voltage (V) / Frequency	230/400V;220/380V, 3L+N+PE/3L+PE, 50Hz/60Hz		
Efficiency			
Max. efficiency	98.20%	98.30%	98.30%
Euro-efficiency	97.60%	97.80%	97.80%
MPPT efficiency	99.90%		
Protection			
Protection	DC breaker, AC short-circuit protection, Over current protection, Over voltage protection, Isolation protection, RCD, Surge protection, Anti-island protection, Over-temperature protection, Ground fault monitoring, etc.		
General data			
Display	3.5 inches LCD display, support backlit display		
LCD language	English, Chinese, German, Dutch		
Communication interface	RS485(standard); WiFi, Etherne(optional)		
Cooling method	Smart cooling		
Protection degree	IP65		
Night self-consumption (W)	<0.5		
Topology	Transformerless		
Operating temperature range	-25°C~+60°C(derate after 45°C)		
Relative humidity	4~100%, no condensation		
Dimension (H x W x D mm)	610x480x204		
Weight (kg)	38		
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		
Safety certificate / EMC certificates	IEC 62109-1:2010, IEC 62109-2:2011, EN 61000-6-2:2005, EN 61000-6-3:2007/A1:2011		
Warranty (years)	5(standard)/10(optional)		

iMars BG

BG20KTR | BG35KTR
 BG25KTR | BG40KTR-HV
 BG30KTR | BG50KTR-HV
 BG33KTR



Efficient

- Wide input voltage range, adapt to all kinds of solar panels and string configuration.
- Dual MPPTs allow unbalanced input power. One MPPT max. input power is up to 60% of total input.
- Adopt combined technology of T-type three level topologies and SVPWM.

Smart

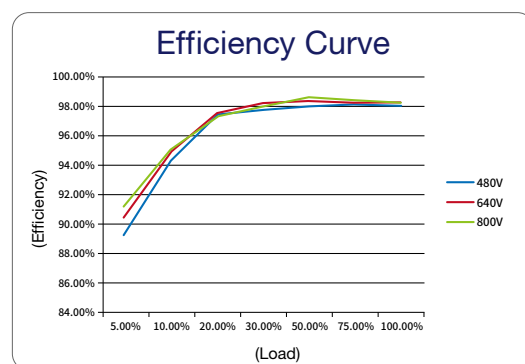
- AC output power is adjustable between 1-100%.
- Grid self-adaptation, no N-line AC design to meet various grid access requirements.
- Integrated global monitor management, APP with one-button registration.

Reliable

- IP65 protection level, suitable for various installation environments.
- Advanced film bus capacitors, latest thermal simulation technology for longer lifespan.

Simple

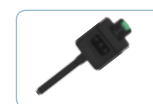
- High power density, small size.
- Modular design, easy to maintain.



	BG20KTR	BG25KTR	BG30KTR	BG33KTR	BG35KTR	BG40KTR-HV	BG50KTR-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						200/160
MPPT range (V)	280-800						200-900
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
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
Power factor	-0.8~+0.8(adjustable)						
THDi	<3%(at rated power)						
Nominal output voltage (V) / Frequency	230/400V;220/380V, 3L+N+PE/3L+PE, 50Hz/60Hz					277/480V, 3L+N+PE/3L+PE, 50Hz/60Hz	310/540V, 3L+N+PE/3L+PE, 50Hz/60Hz
Efficiency							
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							
Protection	DC breaker, AC short-circuit protection, Over current protection, Over voltage protection, Isolation protection, RCD, Surge protection, Anti-island protection, Over-temperature protection, Ground fault monitoring, etc.						
General data							
Display	3.5 inches LCD display, support backlit display					LED display	
LCD language	English, Chinese, German, Dutch					/	
Communication interface	RS485(standard); WiFi, Ethernet(optional)					RS485(standard), WiFi, Ethernet(optional), PLC carrier communication (optional)	
Cooling method	Smart cooling						
Protection degree	IP65						
Night self-consumption (W)	<0.5						
Topology	Transformerless						
Operating temperature range	-25°C~+60°C(derate after 45°C)						
Relative humidity	4~100%, condensation						
Dimension (H x W x D mm)	660x520x250					645x660x425	
Weight (kg)	52					57	
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						
Safety certificate / EMC certificates	IEC 62109-1:2010, IEC 62109-2:2011, EN 61000-6-2:2005, EN 61000-6-3:2007/A1:2011						
Warranty (years)	5(standard)/10(optional)						

iMars BG

BG40KTR | BG60KTR
BG50KTR | BG70KTR



WiFi
GPRS
5G
ETHERNET



Monitoring
Platform

Efficient

- Wide input voltage range, adapt to all kinds of solar panels and string configuration.
- Adopt combined technology of T-type three level topologies and SVPWM.

Smart

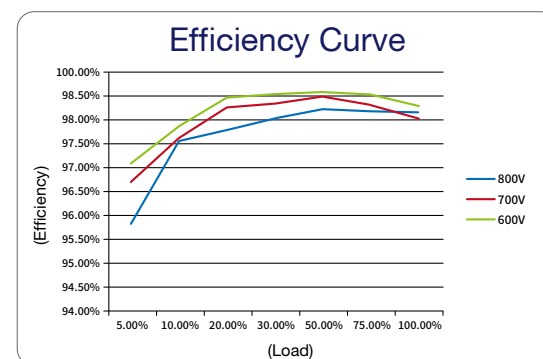
- AC output power is adjustable between 1-100%.
- Grid self-adaptation, no N-line AC design to meet various grid access requirements.
- Integrated global monitor management, APP with one-button registration.

Reliable

- IP65 protection level, suitable for various installation environments.
- Advanced film bus capacitors, latest thermal simulation technology for longer lifespan.
- Fuse-free design, avoid fuse failure to cause fire.

Simple

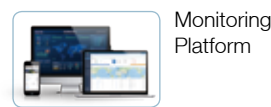
- High power density, small size.
- Modular design, easy to maintain.



	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)	570-950			
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
Output (AC)				
Rated output power (W)	40000	50000	60000	66000
Max. AC output current (A)	63.5	72.5	96	96
Power factor	-0.8~+0.8(adjustable)			
THDi	<3%(at rated power)			
Nominal output voltage (V) / Frequency	230/400V, 3L+N+PE/3L+PE, 50Hz/60Hz			
Efficiency				
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				
Protection	DC breaker, AC short-circuit protection, Over current protection, Over voltage protection, Isolation protection, RCD, Surge protection, Anti-island protection, Over-temperature protection, Ground fault monitoring, etc.			
General data				
Display	3.5 inches LCD display, support backlight display			
LCD language	English, Chinese, German, Dutch			
Communication interface	RS485(standard); WiFi、Ethernet(optional)、PLC carrier communication(optional)			
Cooling method	Smart cooling			
Protection degree	IP65			
Night self-consumption (W)	<0.5			
Topology	Transformerless			
Operating temperature range	-25°C~+60°C(derate after 45°C)			
Relative humidity	4~100%, condensation			
Dimension (H x W x D mm)	810x645x235			
Weight (kg)	53			
Grid qualification	NB/T 32004-2013, TUV, CE, VDE0126-1-1, VDE-AR-N4105, G59/3,C10/11, TF3.2.1, AS/NZS 4777.2:2015, EN61000-6-1:4, EN61000-11:12, IEC62109-1:2010, PEA, ZVRT			
Safety certificate / EMC certificates	VDE-AR-N4105, AS4777/3100, CQC			
Warranty (years)	5(standard)/10(optional)			

iMars BG

BG50KTR-LD | BG70KTR-LD
BG60KTR-LD | BG80KTR-MD



Efficient

- Max. efficiency up to 98.9%.
- 4 MPPT, Wide input voltage range, adapt to all kinds of solar panels and string configuration.
- Adopt combined technology of T-type three level topologies and SVPWM.

Smart

- AC output power is adjustable between 1-100%.
- Grid self-adaptation, no N-line AC design to meet various grid access requirements.
- Integrated global monitor management, APP with one-button registration.

Reliable

- IP65 protection level, suitable for various installation environments.
- Advanced film bus capacitors, latest thermal simulation technology for longer lifespan.
- Fuse-free design, avoid fuse failure to cause fire.

Simple

- High power density, modular design.
- Widthwise appearance design, easy to maintain.

	BG50KTR-LD	BG60KTR-LD	BG70KTR-LD	BG80KTR-MD
Input (DC)				
Max. DC input power (W)	65000	75000	91000	104000
Max. DC input voltage (V)	1100			
Starting voltage (V) / Min. operation voltage (V)	250/200	250/200	250/200	250/200
MPPT Range (V)	200-1000	200-1000	200-1000	200-1000
Quantity of MPPT / String per MPPT	4/3		4/4	4/5
Number of MPPT input	12	12	16	20
Max. DC current (A) per MPPT	< 15			
Output (AC)				
Rated output power (W)	50000	60000	70000	80000
Max. AC output current (A)	80.5	96	106	106
Power factor	-0.8~+0.8(adjustable)			
THDi	<3%(at rated power)			
Nominal output voltage (V) / frequency (Hz)	230/400, 3L+N+PE/3L+PE, 50/60		230/420, 3L+N+PE/3L+PE, 50/60	230/480, 3L+N+PE/3L+PE, 50/60
Efficiency				
Max. efficiency	98.90%	98.90%	98.90%	98.90%
Euro-efficiency	98.50%	98.50%	98.50%	98.50%
MPPT efficiency	99.90%			
Protection				
Protection	DC breaker, AC Short-circuit protection, Over current protection, Over voltage protection, Isolation protection, RCD, Surge Protection, Anti-island protection, Over-temperature protection, Ground fault monitoring, Zero crossing, Level 2 lightning protection(40KA), level 2 lightning protection, Grid monitoring, etc.			
Generated data				
Display	3.5 inches LCD display, Support for handheld keyboards (5G concept)			
LCD language	English, Chinese			
Communication interface	RS485(standard), WiFi, Ethernet(optional)			
Cooling method	Smart cooling			
Protection degree	IP65			
Night self consumption (W)	<1			
Topology	Transformerless			
Operating temperature range	-25°C ~+60°C (derate after 45°C)			
Relative humidity	0~95%, condensation			
Dimension (H x W x D mm)	810x625x300			
Weight (kg)	75			
Grid qualification	VDE-AR-N4105, G83/2, C10/11, TF3.2.1, AS4777/3100, EN61000-6-1:4, EN61000-3-2:3, EN61000-11:12, IEC 62109-1:2010			
Safe certificate / EMC certificate	VDE-AR-N4105, AS4777/3100, CQC			
Factory warranty (years)	5(standard) / 10(optional)			



Energy Storage Solar Inverter



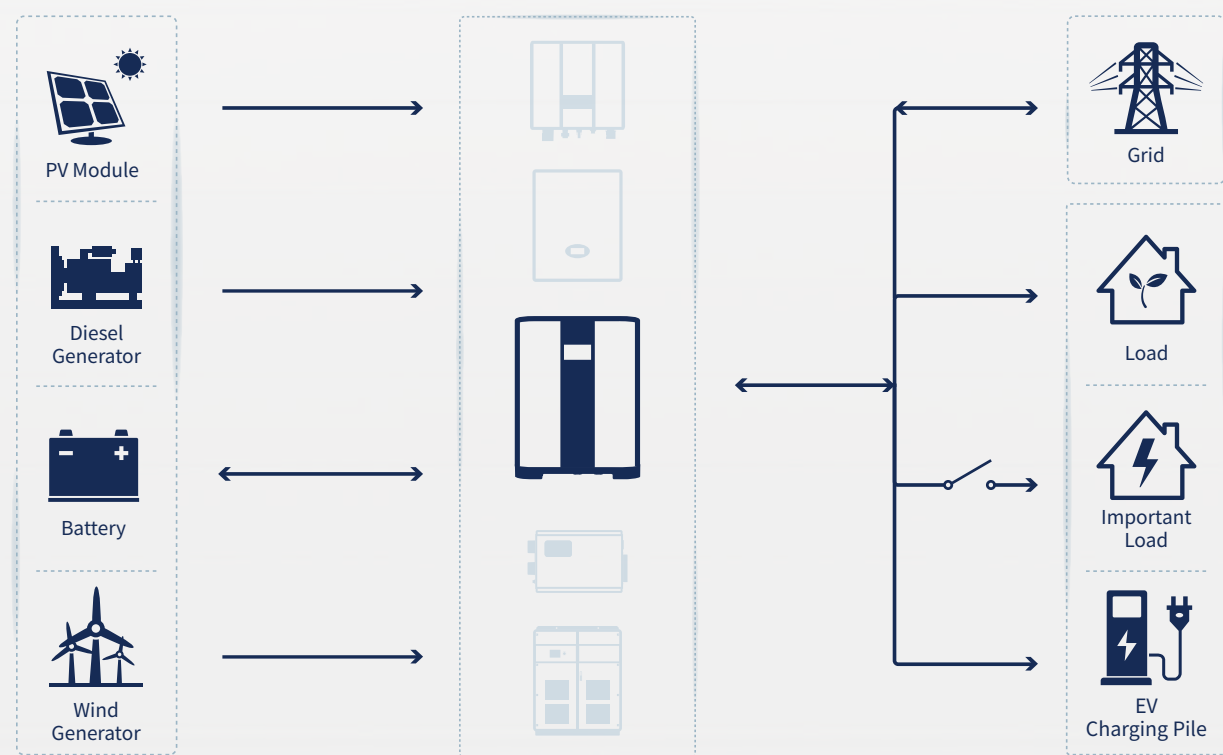
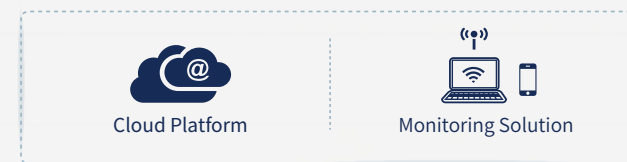
BD3KTL
BD5KTL

BD3KTL-MR
BD4KTL-MR
BD5KTL-MR

BD3KTL-HS
BD5KTL-HS

BD3KTL-TD
BD5KTL-TD

BD3KTL-PS



iMars BD

Hybrid Inverter

BD3KTL | BD5KTL



WiFi
GPRS
5G
ETHERNET



Monitoring
Platform

Efficient

- Support on-grid charge/discharge and off-grid mode.
- 10ms seamless switching.

Smart

- Friendly HMI, large LCD display.
- Optional diesel engine communication interface.
- Integrated global monitor management, APP with one-button registration.
- Intelligent charging and discharging to extend battery life.

Reliable

- Integrated professional BMS.
- Compatible with lead-acid and lithium battery.

Simple

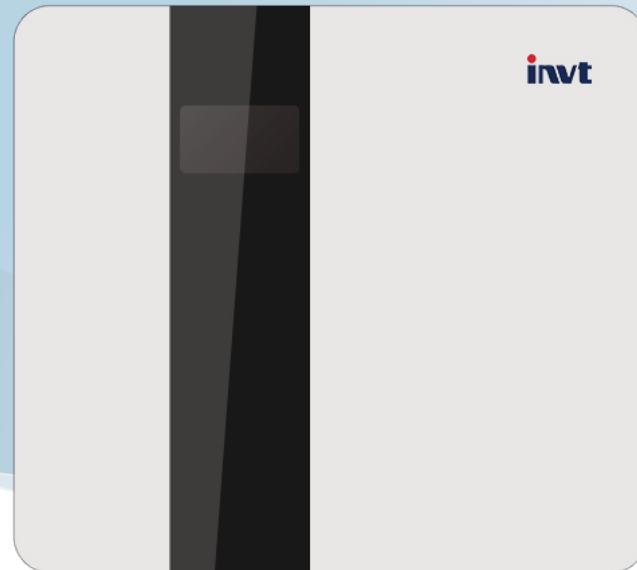
- Small size, light weight, convenient for installation.

	BD3KTL	BD5KTL
DC input (PV)		
Max. DC input power (W)	3300	6600
Max. DC input voltage (V)	550	
Starting voltage (V) / Min. operation voltage (V)	100/80	
MPPT range (V)	120~450	
Max. input current (A)	13	13x2
Number of MPPT / String per MPPT	1/1	2/1
Short circuit current (A)	15.6	15.6x2
AC output 1 (Grid)		
Rated power (W)	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)	13.6	24.5
Power factor	≥0.99(±0.95adjustable)	
THDi	≤3%(at rated power)	
Max. efficiency	97.20%	97.70%
Euro-efficiency	96.50%	97%
AC output 2 (Load)		
Rated output power (VA)	3000	4600
Rated output voltage (V)	208/220/230/240(±2%)	
Rated output frequency (Hz)	50/60(±0.2%)	
Off-network switching time (ms)	≤10	
Voltage harmonic distortion	≤3%(at rated power)	
Peak power/duration	150%/10s	
Battery		
Rated voltage (V)	48	
Voltage range (settable) (V)	42-58	
Battery type	Lithium battery or Lead-acid battery	
Battery capacity	/	
Max.charging current (settable) (A)	60	100
Max. discharging current (settable) (A)	60	100
Max. efficiency	94%	
Protection		
Protection	DC breaker, AC short-circuit protection, Over current protection, Over voltage protection, Isolation protection, RCD, Surge protection, Anti-island protection, Over-temperature protection, Ground fault monitoring, etc.	
Others		
Isolation method (photovoltaic side)	Non-isolation	
Isolation method (battery side)	High-frequency isolation	
Operating temperature range	-10°C~+40°C	
Cooling method	Air cooling	
Degree of protection / Altitude (m)	IP20/<1000m	
Relative humidity	0~95%, no condensation	
Noise (dB)	≤50	
Display	LCD	
Communication interface	RS485(standard); WiFi、Ethernet(optional), CAN-BUS (internal communication) , USB, Genset	
Dimension (H x W x D mm)	610x425x190	
Weight (kg)	19	
Installation	Wall mounting	
Ground fault alarm	Built-in buzzer	
Grid qualification	VDE-AR-N4105, AS/NZS 4777.2:2015, NB/T 32004-2013	
Safety certificate / EMC certificates	IEC 62109-1:2010, IEC 62109-2:2011, EN 61000-6-2:2005	
Warranty (years)	3/5	

iMars BD

Hybrid Inverter

BD3KTL-MR | BD5KTL-MR
BD4KTL-MR



WiFi
GPRS
5G
ETHERNET



Monitoring
Platform

Efficient

- Support on-grid charge/discharge and off-grid mode.
- 10ms seamless switching.

Smart

- Friendly HMI, large LCD display.
- Optional diesel engine communication interface.
- Global Integrated monitor management, APP with one-button registration.
- Intelligent charging and discharging to extend battery life.

Reliable

- Integrated professional BMS.
- Compatible with lead-acid and lithium battery.
- IP65 protection, natural cooling.

Simple

- Small size, light weight, convenient for installation.

	BD3KTL-MR	BD4KTL-MR	BD5KTL-MR
DC input (PV)			
Max. DC input power (W)	4600	5600	6000
Max. DC input voltage (V)		550	
Starting voltage (V)		125	
MPPT range (V)		125-550	
Max. input current (A)		14x2	
Number of MPPT / String per MPPT		2/1	
AC output 1 (Grid)			
Rated power (W)	3680	4600	5000
Rated grid frequency (Hz)		50/60	
Grid voltage range (V)		180~280	
Max. output current (A)	17	21	23
		1(-0.8~+0.8)	
THDi		<3%	
Max. efficiency		97.6%	
Euro-efficiency		97.0%	
AC output 2 (Load)			
Rated output power (VA)	3600	4600	5000
Rated output voltage (V)		230	
Rated current (A)	17	21	23
Rated output frequency (Hz)		50	
Off-network switching time (ms)		<20	
THDU		<2%	
Parallel operation		yes	
Battery			
Battery voltage range (V)		42~59	
Max. charging voltage (V)		58	
Battery type		Lithium battery or Lead-acid battery	
Capacity of battery (kWh)		3~12	
Depth of discharge		80%DOD/50%DOD	
Communication interface		CAN/RS485	
Max.charging current (A)		110	
Max. discharging current (A)		110	
Max. efficiency		95.0%	
Others			
Inverter topology		Transformerless	
Self-consumption (W)		<3	
Operating temperature range		-25°C~+60°C	
Cooling method		Natural	
Degree of protection / Altitude (m)		IP65/<2000m	
Relative humidity		4~100%, condensation	
Noise (dB)		<35	
Display		LCD	
Communication interface		RS485(standard); WiFi、LAN(optional), CAN(standard), DRM(standard)	
Dimension (H x W x D mm)		550x200x515	
Weight (kg)		24.5	
Safety certificate / EMC certificates		CQC, TUV, SAA, G83	

iMars BD

All-in-one Hybrid System

BD3KTL- HS | BD5KTL- HS



WiFi
GPRS
5G
ETHERNET



Monitoring
Platform

Efficient

- Battery and grid priority.
- 10ms seamless switching.
- Built-in lithium battery, and the capacity of 2.4-14.4kwh is optional.

Smart

- On-grid and off-grid automatically detect, maximize peak-shaving and valley-filling or self-use performance.
- RS485*3, CAN*2(with lithium battery), WiFi (optional).
- Charging and discharging time is settable.
- Grid-tied output power is adjustable (0~100%).

Reliable

- Professional BMS, intelligent charging function.
- Compatible with lead-acid and lithium battery.
- Charging current is settable according to different battery types.

Simple

- Friendly interface, 4.3 inch LCD display.
- Inverter and battery in one case, easy to operate.

	BD3KTL-HS	BD5KTL-HS
DC input (PV)		
Max. DC input power (W)	3300	6600
Max. DC input voltage (V)		550
Starting voltage (V) / Min. operation voltage (V)		100/80
MPPT range (V)		120~450
Max. input current (A)	13A	13A×2
Number of MPPT / String per MPPT	1/1	2/1
Short circuit current (A)	15.6	15.6×2
AC output 1 (Grid)		
Rated power (W)	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
Power factor		≥0.99(±0.95adjustable)
THDi		≤3%(at rated power)
Max. efficiency	97.20%	97.70%
Euro-efficiency	96.50%	97%
AC output 2 (Load)		
Rated output power (VA)	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%(at 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-14.4kWh(adjustable)
Max.charging current (settable) (A)	60	100
Max. discharging current (settable) (A)	60	100
Max. efficiency		94%
Protection		
Protection	DC breaker, AC short-circuit protection, Over current protection, Over voltage protection, Isolation protection, RCD, Surge protection, Anti-island protection, Over-temperature protection, Ground fault monitoring, etc.	
Others		
Isolation method (photovoltaic side)	Non-isolation	
Isolation method (battery side)	High-frequency isolation	
Operating temperature range	-25°C~+60°C(derate after40°C)	
Cooling method	Air cooling	
Degree of protection / Altitude (m)	IP20/<1000m	
Relative humidity	0~95%, no condensation	
Noise (dB)	≤ 50	
Display	LCD	
Communication interface	RS485(standard); WiFi、Ethernet(optional)、CAN-BUS(internal communication)、USB、Genset	
Dimension (H x W x D mm)	1043.5x654x605	
Weight (kg)	98.5	
Installation	Standing	
Ground fault alarm	Built-in buzzer	
Grid qualification	VDE-AR-N4105, AS/NZS 4777.2:2015, NB/T 32004-2013	
Safety certificate / EMC certificates	IEC 62109-1:2010, IEC 62109-2:2011, EN 61000-6-2:2005	
Warranty (years)	3/5	



iMars BD

All-in-one Hybrid System

BD3KTL-TD | BD5KTL-TD



WiFi
GPRS
5G
ETHERNET



Monitoring
Platform

Efficient

- Priority of battery and grid is settable.
- 10ms seamless switching.
- Built-in lithium battery, and the capacity of 2.4-12kwh is optional.

Smart

- On-grid and off-grid automatically detect, maximize peak-shaving and valley-filling or self-use performance.
- RS485*3, CAN*2(with lithium battery), WiFi (optional).
- Charging and discharging time is settable.
- Grid-tied output power is adjustable (0~100%).

Reliable

- Professional BMS, intelligent charging function.
- Compatible with lead-acid and lithium battery.
- Charging current is settable according to different battery types.
- IP54 protection level.

Simple

- Friendly interface, 4.3 inch LCD display.
- Inverter and battery in one case, easy to operate.

	BD3KTL-TD	BD5KTL-TD
DC input (PV)		
Max. DC input power (W)	3300	6600
Max. DC input voltage (V)	550	
Starting voltage (V) / Min. operation voltage (V)	100/80	
MPPT range (V)	120~450	
Max. input current (A)	13	13x2
Number of MPPT / String per MPPT	1/1	2/1
Short circuit current (A)	15.6	15.6x2
AC output 1 (Grid)		
Rated power (W)	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)	13.6	24.5
Power factor	≥0.99(±0.95adjustable)	
THDi	≤3%(at rated power)	
Max. efficiency	97.20%	97.70%
Euro-efficiency	96.50%	97%
AC output 2 (Load)		
Rated output power (VA)	3000	4600
Rated output voltage (V)	208/220/230/240(±2%)	
Rated output frequency (Hz)	50/60(±0.2%)	
Off-network switching time	≤10ms	
Voltage harmonic distortion	≤3%(at rated power)	
Peak power/duration	150%/10s	
Battery		
Rated voltage (V)	48	
Voltage range (settable) (V)	42-58	
Battery type	Lithium battery or Lead-acid battery	
Battery capacity	2.4kWh-12kWh(adjustable)	
Max.charging current (settable) (A)	60	100
Max. discharging current (settable) (A)	60	100
Max. efficiency	94%	
Protection		
Protection	DC breaker, AC short-circuit protection, Over current protection, Over voltage protection, Isolation protection, RCD, Surge protection, Anti-island protection, Over-temperature protection, Ground fault monitoring, etc.	
Others		
Isolation method (photovoltaic side)	Non-isolation	
Isolation method (battery side)	High-frequency isolation	
Operating temperature range	-10°C~+40°C	
Cooling method	Air cooling	
Degree of protection / Altitude (m)	IP54/<1000m	
Relative humidity	4~100%, condensation	
Noise (dB)	≤60	
Display	LCD	
Communication interface	RS485(standard); WiFi(optional), Ethernet(optional), CAN-BUS(internal communication), USB, Genset	
Dimension (H x W x D mm)	1300x650x440	
Weight (kg)	99	
Installation	Standing	
Ground fault alarm	Built-in buzzer	
Grid qualification	VDE-AR-N4105, AS/NZS 4777.2:2015, NB/T 32004-2013	
Safety certificate / EMC certificates	IEC 62109-1:2010, IEC 62109-2:2011, EN 61000-6-2:2005	
Warranty (years)	3/5	

iMars BD

Energy Storage Inverter

BD3KTL-PS



WiFi
GPRS
5G
ETHERNET



Monitoring
Solution

Efficient

- Professional BMS, three charging stage, lead-acid battery and lithium iron are compatible.
- Voltage and current charging setup are available.
- Charge and discharge time is adjustable, Maximizing the peak cutting and valley filling performance.

Smart

- RS485*2, CAN*1(lithium battery), WiFi (optional).
- Multiple monitoring modes: APP, website.
- 50Hz/60Hz auto adaptation.

Reliable

- IP65 protection.
- Use international top brand components, with perfect protection function.

Simple

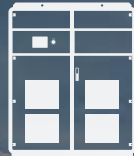
- Small in size, light in weight, easy to install.
- Friendly HMI, 4.3-inch LCD display.

BD3KTL-PS	
AC grid parameters	
Rated output power (W)	3000
Max. output current (A)	13
Rated output voltage (V) / frequency	230, L+N+PE, 50Hz/60Hz
Power factor	≥0.99(±0.95 adjustable)
THDi	≤3%(at rated power)
Max. output fault current (A)	50
Battery	
Battery type	Lithium battery or Lead-acid battery
Rated voltage (V)	48
Max.charging current (settable) (A)	60
Max. discharging current (settable) (A)	65
Charging curves	Three stage
Max. efficiency	93%
Protection	
Protection	DC breaker, AC short-circuit protection, Over current protection, Over voltage protection, Isolation protection, RCD, Surge protection, Anti-island protection, Over-temperature protection, Ground fault monitoring, etc.
Others	
Isolation method (battery side)	High-frequency isolation
Degree of protection	IP65
Dimension (H x W x D mm)	360x150x507
Operating temperature range	-25°C~+60°C
Cooling method	Air cooling
Relative humidity	4~100%, condensation
Display	LCD
Communication interface	RS485(standard); WiFi(optional)、CAN-BUS
Grid qualification	VDE-AR-N4105, AS4777/3100
Warranty (years)	3/5

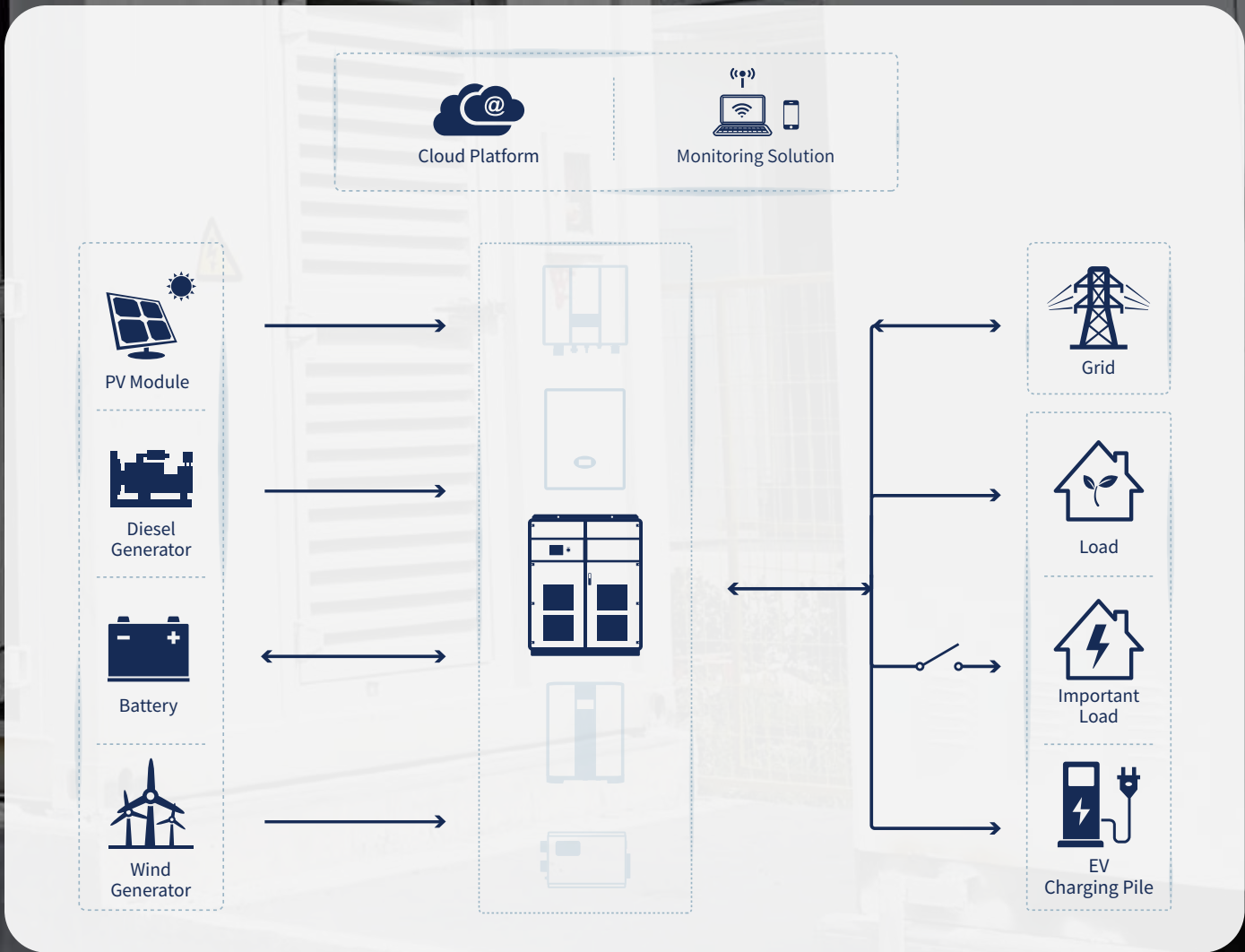
Energy Storage Converter



BD30KTR
BD50KTR
BD100KTR
BD120KTR
BD150KTR



BD50KTR-T
BD100KTR-T
BD250KTR-T
BD500KTR-T
BD500KTR
BD630KTR



iMars BD

BD30KTR | BD120KTR
 BD50KTR | BD150KTR
 BD100KTR |



Efficient

- Advanced DSP, more stable and effective.
- Compatible with different batteries.
- Wide battery voltage range.

Smart

- Support on-grid charge/discharge, off-grid modes.
- Reactive and active power can be adjusted.
- Flexible communication mode, BMS management.

Reliable

- Support soft start, support parallel connection function.
- Friendly HMI, easy to operate and maintain.
- Small size, convenient for installation, transportation and maintenance.

	BD 30KTR	BD 50KTR	BD 100KTR	BD 120KTR	BD 150KTR
PV MEGA0100T					
Max PV Open-circuit voltage (Vdc)	1000				
Recommended PV Power (kW)	36(Configurable)	60(Configurable)	120(Configurable)	120(Configurable)	150(Configurable)
PV MPPT Voltage (Vdc)	520-850				
AC(Grid-connected)					
Rated power(kVA)	33	55	110	132	165
Active power (kW)	30	50	100	120	150
Rated Voltage (V)	400				
Voltage Range(V)	320-460				
Rated Current (A)	43	72	144	173	217
Rated Frequency (Hz)	50/60				
Frequency Range (Hz)	45-55/55-65				
THDi	<3%				
PF	1(-0.8~+0.8)				
AC(Off-grid)					
Rated Voltage(V)	400				
THDU	≤ 2%, linear				
Rated Frequency (Hz)	50/60				
Overload Capability	110%:10min; 120%:1min				
Battery					
Rated Voltage (Vdc)	384-456				
Max Charging Power(kW)	30	50	100	120	150
Max Charging Current (A)	85	142	285	340	425
General Data					
Max Power	96.50%	97.10%	97.30%	97.50%	97.50%
Protection Degree	IP20				
Noise Emission (dB)	<65				
Environment Temperature	-25°C ~ +55°C				
Cooling	Forced-air				
Relative Humidity	0~95%, non-condensing				
Dimension (H x W x D mm)	800x800x2050			1200x800x2050	
Weight (kg)	440	620	900	1024	1250
Standby Consumption(W)	<30				
Display	Touch Screen				
BMS Communication Interface	RS485/CAN				

iMars BD

BD50KTR-T | BD500KTR-T
 BD100KTR-T | BD500KTR
 BD250KTR-T | BD630KTR



EMS

Efficient

- Advanced DSP, more stable and effective.
- Compatible with different batteries.
- Wide battery voltage range.

Smart

- Support on-grid charge/discharge, off-grid modes.
- Reactive and active power can be adjusted.
- Flexible communication mode, BMS management.

Reliable

- Support soft start, support parallel connection function.
- Friendly HMI, easy to operate and maintain.
- Small size, convenient for installation, transportation and maintenance.

	BD50KTR-T	BD100KTR-T	BD250KTR-T	BD500KTR-T	BD500KTR	BD630KTR
DC (Battery)						
Apparent power (kW)	55	110	275	500		690
Current regulation				±1%		
Voltage regulation				±1%		
Voltage ripple				<3%		
Current ripple				<2%		
Voltage range (V)	500-850			550-850		
Max current (A)	110	220	550	1100		1200
AC (Grid-connected)						
Rated power (kW)	50	100	250	500		630
Rated voltage (V)	400			315		
Voltage range (V)	310-450			252-362		
Rated current (A)	72	144	361	722	916	1155
Rated frequency (Hz)	50/60					
Frequency range (Hz)	45-55/55-65					
THDi	<3%					
Power factor	1(-0.8~+0.8)					
AC connection	3W+N+PE			3W+PE		
AC (Off-grid)						
Rated voltage (V)	400					
THDU	≤3% linear					
Rated frequency (Hz)	50/60					
Overload capability	110%-10min/120%-1min					
General Information						
Maximum efficiency	0.965	0.971	0.973	0.975		0.987
Protection degree	IP21					
Noise (dB)	<65					
Operating temperature range	-30°C~+55°C					
Cooling method	Forced air					
Relative humidity	0-95% non-condensation					
Maximum altitude	5000m(derated above 3000m)					
Dimension (W x D x H mm)	800x800x2050		1200x800x2050	1600x935x2050	1200x800x2050	
Weight (kg)	450	860	1350	2770	1400	
Transformer	yes			no		
Self-Consumption (W)	<40					
On / Off grid transfer	Manual(standard)/Automatic(optional)					
Communication						
Display	Touch screen					
BMS Interface	RS485; CAN					
Certificates	CQC, TUV					

Single Phase Off-grid Inverter

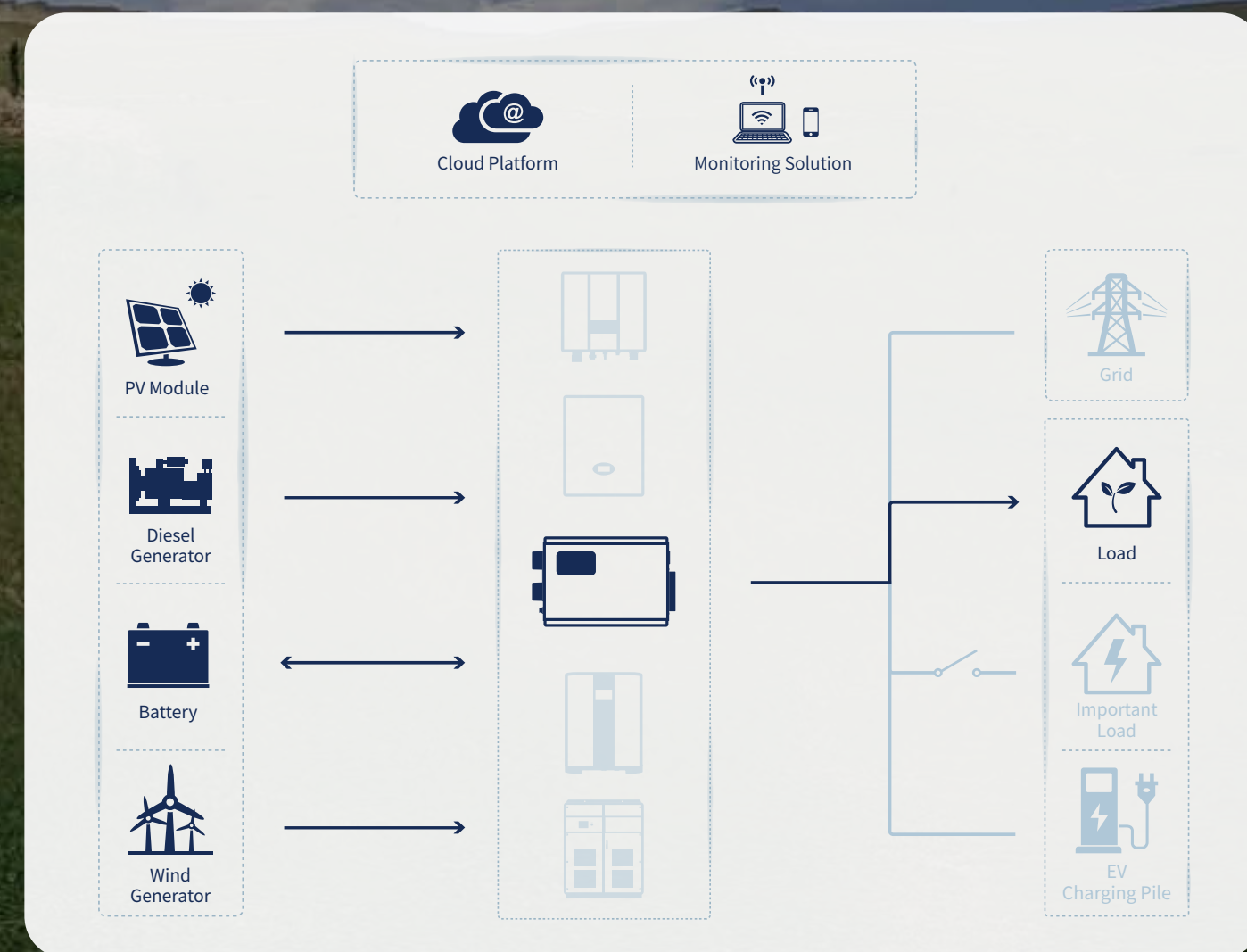


BN1012C/ E
BN1024C/ E
BN1512C/ E
BN1524C/ E
BN2012C/ E
BN2024C/ E

BN3012C/ E
BN3024C/ E
BN4048C/ E
BN5048C/ E
BN6048C/ E

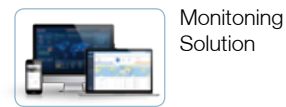


BPD0K7TNAC
BPD1K5TNAC
BPD2K2TNAC
BPD004TNAC
BPD2K2TRAC
BPD004TRAC
BPD5K5TRAC



iMars BN

BN1012C/E | BN1524C/E
 BN1024C/E | BN2012C/E
 BN1512C/E | BN2024C/E



Efficient

- Multiple charging topology, to maximize battery performance.
- Multiple working priority settings.
- Electricity bypass quick charging function.
- Solar panel MPPT charging technology.

Smart

- Global integrated monitor management, APP with one-button registration.
- Parallel operation up to 6 units.

Reliable

- Over-load and short-circuit protection.
- Capable of linear load or non-linear load.

Simple

- Easy to maintain.

	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)	50/60(auto detection)					
Frequency range (Hz)	47±0.3~55±0.3 for 50; (57±0.3~65±0.3 for 60)					
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)	50±0.3/60±0.3					
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 electric 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 model:12/11; 24VDC model:24/22					
DC input voltage range (V)	10.0~16.0, ±0.6Vdc:12VDC model(*2 is 24VDC input model,*4 is 48VDC input model) (12VDC model:low alarm:10.5V; shut down:10V; high fault:16V; high recovery:15.5V)					
Main operating mode	0-6 level:grid priority; 7-9 level battery priority					
Charge (Line)						
Charge current (A)	35	20	45	25	65	35
Charge current regulation (A)	± 5					
Battery voltage range (V)	12VDC model:10-15.7; 24VDC model:20-31.4					
Charge short-circuit protection	Circuit breaker					
Breaker current (A)	10				30	
Over charge protection	Bat. V ≥ 15.7 is 12VDC model,*2 is 24VDC input model,*4is 48VDC model)every 1s & fault after 60s					
Charge (Solar) (E series is not included)						
MPPT voltage range (V)	12VDC model:15-55; 24VDC model:18-78					
Max. PV input voltage (V)	12VDC model:70; 24VDC model:100					
Max. PV open circuit voltage (V)	12VDC model:56; 24VDC model: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 (L x W x H mm)	410x264x180				460x264x180	
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%~95%, condensation					
Communication interface	RS485; GPRS, WiFi					
Safety certificate / EMC certificates	CE(EN62040-1, EN62040-2)/C2					
Warranty (years)	1					

iMars BN

BN3012C/E | BN5048C/E
BN3024C/E | BN6048C/E
BN4048C/E



WiFi
GPRS
5G
ETHERNET



Monitoring
Platform

Efficient

- Multiple charging topology, to maximize battery performance.
- Multiple working priority settings.
- Electricity bypass quick charging function.
- Solar panel MPPT charging technology.

Smart

- Global integrated monitor management, APP with one-button registration.
- Parallel operation up to 6 units.

Reliable

- Over-load and short-circuit protection.
- Capable of linear load or non-linear load.

Simple

- Easy to maintain.

	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)	50/60(auto detection)				
Frequency range (Hz)	47±0.3~55±0.3 for 50; (57±0.3~65±0.3 for 60)				
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		6000/6000
Power factor	1				
Rated output voltage (V)	220/230/240(±10%)				
Rated Output frequency (Hz)	50±0.3/60±0.3				
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
Capable of starting electric motor (HP)	2		3		4
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 model:12/11; 24VDC model:24/22			48/ 44	
DC input voltage range (V)	10.0~16.0, ±0.6Vdc:12VDC model(*2 is 24VDC input model,*4 is 48VDC input model) (12VDC model:low alarm:10.5V; shut down:10V; high fault:16V; high recovery:15.5V)				
Main operating mode	0-6 level:grid priority; 7-9 level battery priority				
Charge (Line)					
Charge current (A)	75		50		40
Charge current regulation (A)	± 5				
Battery voltage range (V)	12VDC model:10-15.7; 24VDC model: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 model,(*2 is 24VDC input model,*4is 48VDC model)every 1s & fault after 60s				
Charge (Solar) (E series is not included)					
MPPT voltage range (V)	12VDC model:15-55, 24VDC model:18-78			50-130	
Max. PV input voltage (V)	12VDC model:70, 24VDC model:100			200	
Max. PV open circuit voltage (V)	12VDC model:56, 24VDC model:80			130	
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 (L x W x H mm)	460x264x180		510x264x180		555x264x180
Weight (kg)	26.3		26		37.3
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%~95%, condensation				
Communication interface	RS485; GPRS、WiFi				
Safety certificate / EMC certificates	CE(EN62040-1, EN62040-2)/C2				
Warranty (years)	1				

iMars BN

BN4012C-P-N | BN5048C-P-N
BN6024C-P-N



WiFi
GPRS
5G
ETHERNET



Monitoring
Platform

Efficient

- Multiple charging topology, to maximize battery performance.
- Multiple working priority settings.
- Electricity bypass quick charging function.
- Solar panel MPPT charging technology.

Smart

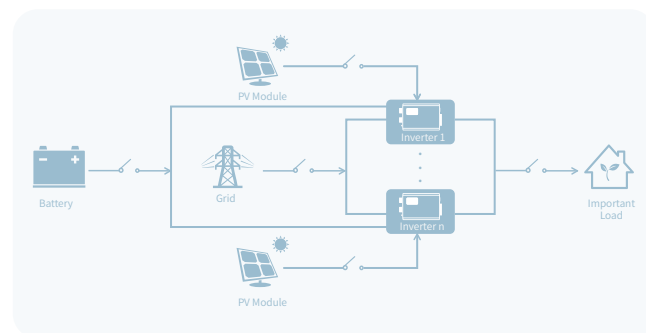
- Global integrated monitor management, APP with one-button registration.
- Parallel operation up to 6 units.

Reliable

- Over-load and short-circuit protection.
- Capable of linear load or non-linear load.

Simple

- Easy to maintain.



	BN4048C-P-N	BN5048C-P-N	BN6048C-P-N
Line mode			
AC input voltage (V)	220/230		
Rated frequency (Hz)	50/60(auto detection)		
Transfer time (ms)	(AC to DC or DC to AC):10(typical)		
Bypass relay current (A)	40		
Invert mode			
Output voltage waveform	Sine wave		
Rated output power (VA) / (W)	4000/4000	5000/5000	6000/6000
Rated output voltage (V)	220/230/240(±10%)		
Rated output frequency (Hz)	50±0.3/60±0.3		
Efficiency	>85%		
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)	48000	90000	105000
Output breaker current (A)	40		
DC input voltage (V) / Min. DC start voltage (V)	48/24		
DC input voltage range (V)	43.0~64, ±0.6Vdc mode:low alarm:44V; shut down:43V; high fault:64V; high recovery:62V)		
Charge (Line)			
Charge current (A)	210	240	300
Battery voltage range (V)	43~62.8		
Breaker current per inverter (A)	30		
Over charge protection	Bat. V≥62.8V; every 1s & fault after 60s		
Charge (Solar)(E series is not included)			
MPPT voltage range (V)	50-130		
Max. PV input voltage (V)	200		
Max. PV open circuit voltage (V)	130		
Rated charge current (A)	240		
Max. full load charging efficiency	98%		
Battery short-circuit protection	Fuse		
General data			
Dimension (H x W x D mm)	555x264x180		
Weight (kg)	31	34	36
Degree of protection / noise (dB)	IP20(forced air, variable speed fan)/<60dB		
Operating temperature range	-15°C to 40°C(-25°C~60°Cfor storage)		
Communication interface	CAN/RS-485/GPRS/WiFi/Remote control		
Safe certificate / EMC certificate	CE(EN62040-1, EN62040-2)/C2		
Factory warranty (years)	1		

iMars BPD

Solar Pumping Inverter

BPD0K7TNAC | BPD2K2TRAC
 BPD1K5TNAC | BPD004TRAC
 BPD2K2TNAC | BPD5K5TRAC
 BPD004TNAC



Keypad

Efficient

- One inverter can be connected with multiple pumps, support vector control.
- Optional water level detection and diesel engine start/stop.
- Wider operation voltage range, multi PV strings configuration 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.

Simple

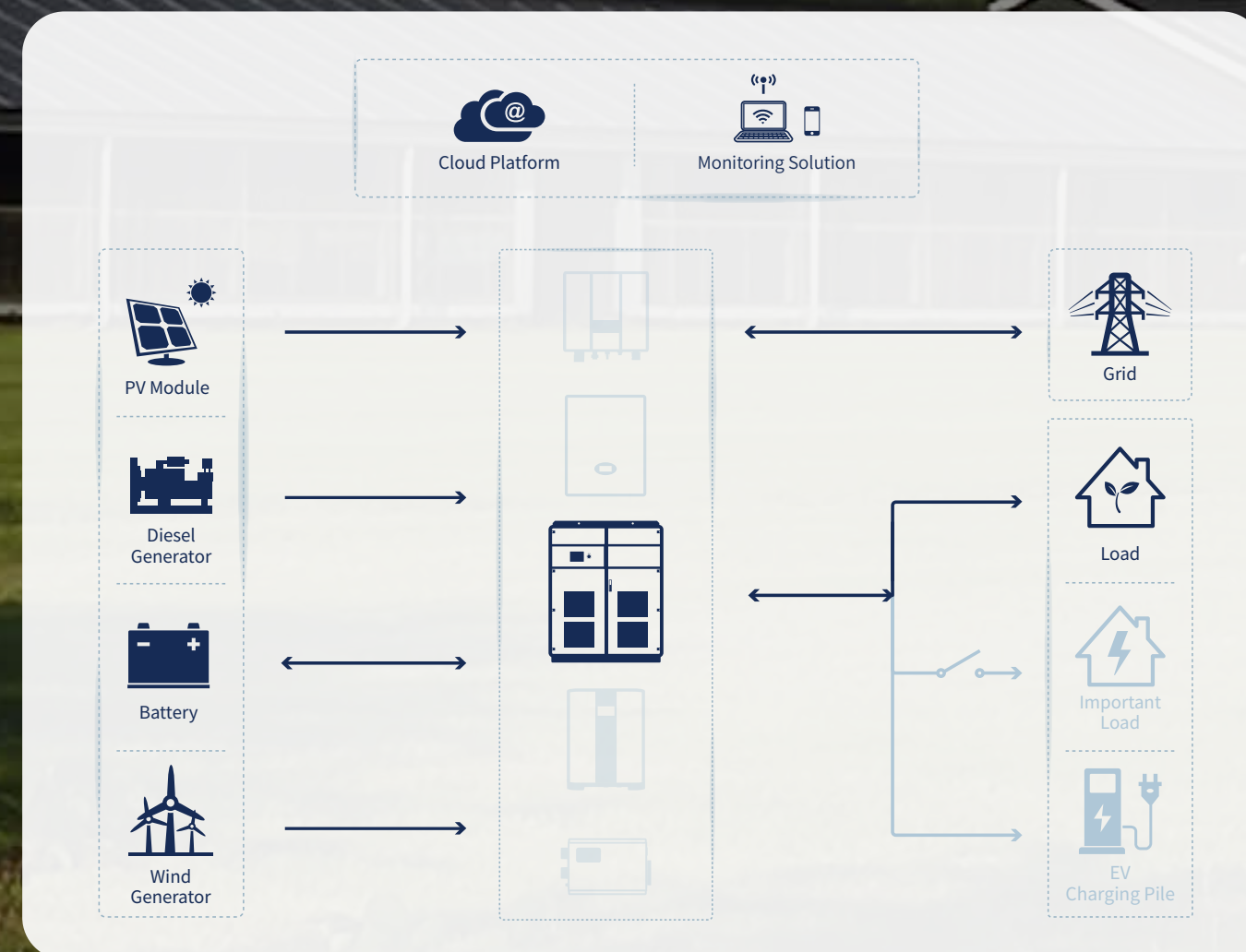
- Easy to install and operate.

	BPD0K7TN(AC)	BPD1K5TN(AC)	BPD2K2TN(AC)	BPD004TNAC	BPD2K2TRAC	BPD004TRAC	BPD5K5TRAC
Input (DC)							
Max. DC voltage (V)	450			800			
Starting voltage (V)	80	100		220			
Minimum working voltage (V)	60	80		180			
MPPT operating voltage range (V)	80-400	100-400		220-750			
Input channel	One MC4 connector	Two MC4 connectors		One MC4 connector	Two MC4 connectors		
Max. DC current (A)	9	12	12	20	9	20	20
Bypass input (AC)							
Input voltage (Vac)	220/230/240(1PH)(-15%~+10%)			380(3PH)(-15%) ~ 440(+10%)			
Input frequency (Hz)	47-63						
Input connect method	1P2L(L,N,PE)			3P4L(R,S,T,PE)			
Output (AC)							
Rated power (W)	750	2200	4000	2200	4000	5500	
Rated current (A)	5.1(1PH) 4.2(3PH)	14(1PH) 10(3PH)	25(1PH) 16(3PH)	5.5	9.5	14	
Output wiring mode	1P2L:1PH motor 1PH control 2P3L:1PH motor 2PH control 3P3L: Connected to 3PH asynchronous motor			3P3L:Connected to 3PH asynchronous motor			
Output frequency (Hz)	1 ~ 400						
Performance							
Control mode	V/F						
Motor type	Asynchronous motor (1PH/3PH)			Asynchronous motor (3PH)			
Others							
Dimensions (WxDxH) (mm)	255x300x137			410x360x160	337x360x160	460x360x160	
weight (kg)	6.4	7	7	13.5	10.8	14.4	14.5
Degree of protection	IP65						
Cooling method	Natural cooling						
HMI	LED screen extend(not support LCD screen)						
Communication							
External communication	RS485/3 digital input						
Communication interface	Multi-core waterproof connector						
Certification							
Safety certificate	CE; EMC meets the requirements of IEC61800-3 C3.						
Operating environment							
Ambient temperature	-25°C~+60°C(derate after 45°C)						
Working altitude (m)	3000(more than 2000m derating)						
Design life	5 years(warranty 18months)						

Three phase Off-grid Inverter



BN30KTR
BN50KTR
BN100KTR
BN120KTR
BN150KTR



iMars BN

BN30KTR | BN120KTR
 BN50KTR | BN150KTR
 BN100KTR |



Efficient

- Integrated EMS function, safe and stable power supply, maximum energy utilization.
- Wide battery voltage range.

Smart

- Multiple working modes can be set flexibly.
- PV controller can be expanded, capacity can be flexibly configured.

Reliable

- Battery capacity and discharge time prediction.
- Compatible with lead acid and Lithium battery.
- Built-in isolation transformer, strong load adaptability.

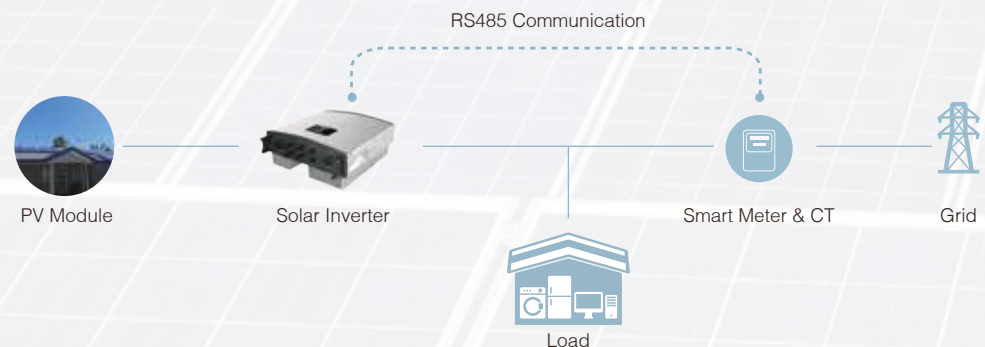
Simple

- Easy to install, transport and maintain.

	BN 30KTR	BN 50KTR	BN 100KTR	BN 120KTR	BN 150KTR
PV					
MEGA0100T					
Max PV Open-circuit voltage (Vdc)	1000				
Recommended PV Power (kW)	36(Configurable)	60(Configurable)	120(Configurable)	120(Configurable)	150(Configurable)
PV MPPT Voltage (Vdc)	520-850				
AC(Off-grid)					
Rated Voltage(V)	400				
THDU	≤2%, linear				
Rated Frequency (Hz)	50/60				
Overload Capability	110%:10min; 120%:1min				
Battery					
Rated Voltage (Vdc)	384-456				
Max Charging Power(kW)	30	50	100	120	150
Max Charging Current (A)	85	142	285	340	425
General Data					
Max Power	96.50%	97.10%	97.30%	97.50%	97.50%
Protection Degree	IP20				
Noise Emission (dB)	<65				
Environment Temperature	-25°C~55°C				
Cooling	Forced-air				
Relative Humidity	0~95%, non-condensing				
Dimension (H x W x D mm)	800x800x2050		1200x800x2050		
Weight (kg)	440	620	900	1024	1250
Standby Consumption(W)	<30				
Display	Touch Screen				
BMS Communication Interface	RS485/CAN				

Smart power output control system

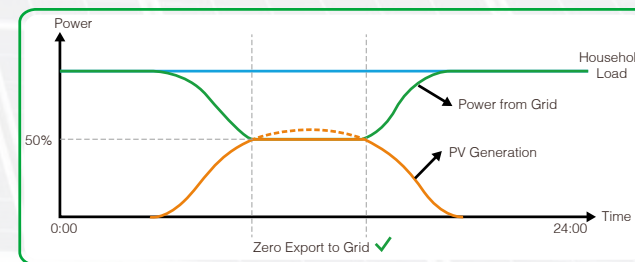
Solution For Residential PV Plants



Description

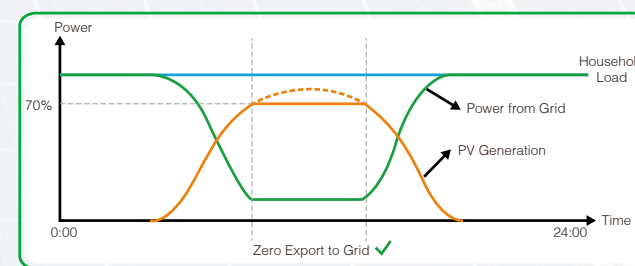
With intelligent output power control function, the system detects the power from grid in real time. Based on the principle that the direction of power flow can be only from grid to load, the inverter adjusts its output power to maximize use of PV energy while prevent energy from feeding back to grid at the same time.

System with intelligent anti-feedback function

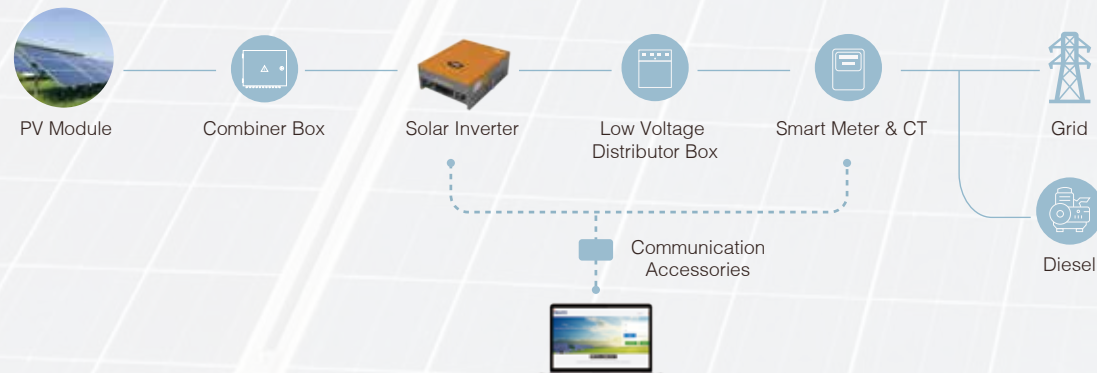


Advantages

1. Adaptive to different grid regulation (FIT, NEM...) and system capacity;
2. High cost-efficient;
3. Easy to install;
4. 0~100% output power automatically control.

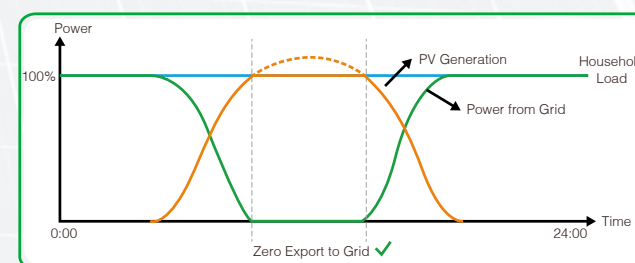


Solution For Commercial PV Plants



Anti-feedback Device Package

<p>ATF200-A</p>  <p>Current Transformer x 1 Single Phase Smart Meter x 1</p>	<p>ATF200-B</p>  <p>Current Transformer x 3 Three Phase Smart Meter x 1</p>
---	--



Monitoring Solution

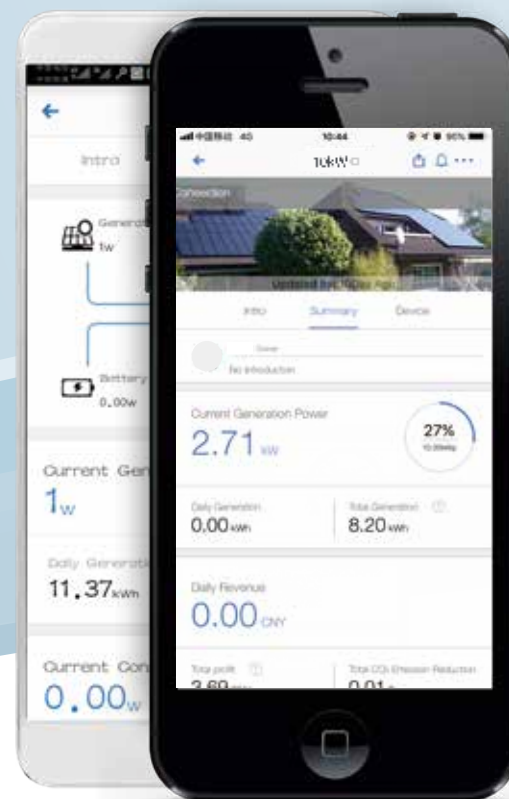
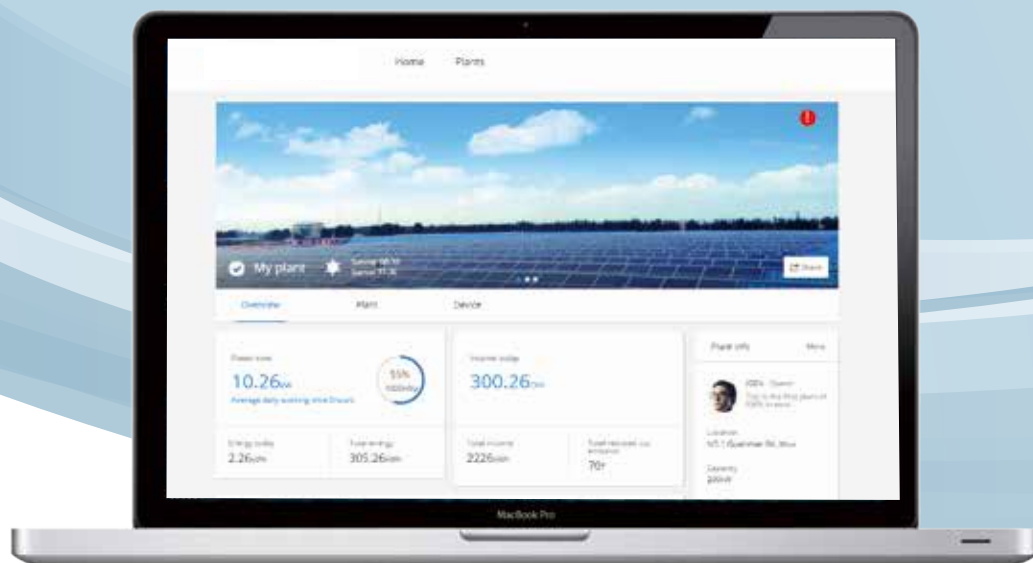
We can provide our customers with a flexible internet monitoring solution which is suitable for residential, commercial rooftop systems and PV power plants. System monitoring device is user-friendly and reliable. It can transmit Real-time data to our server via internet. Customers can login website or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



SOLARMAN HOME WEB

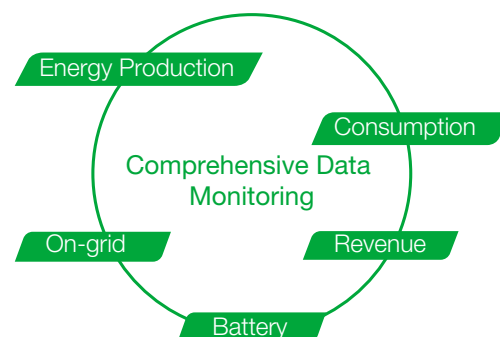
home.solarman.cn

SOLARMAN HOME APP



One-step management PV platform to share with 150,000 users worldwide

- Web-based management and monitoring, with cloud platform support.
- Compatible with various equipment: string inverter, battery storage inverter, micro-inverter, combiner, meter, meteorological sensor, etc.
- Various & intuitive icon, clearly display plant data: historical/real-time yield, solar source, etc.
- Real-time alerts & customized reports.
- Open API for easy integration into corporate or personal websites
- New social-networking function: follow other plants, share ideas.
- Stimulate PV plant building, assess system revenue before building actual plants.

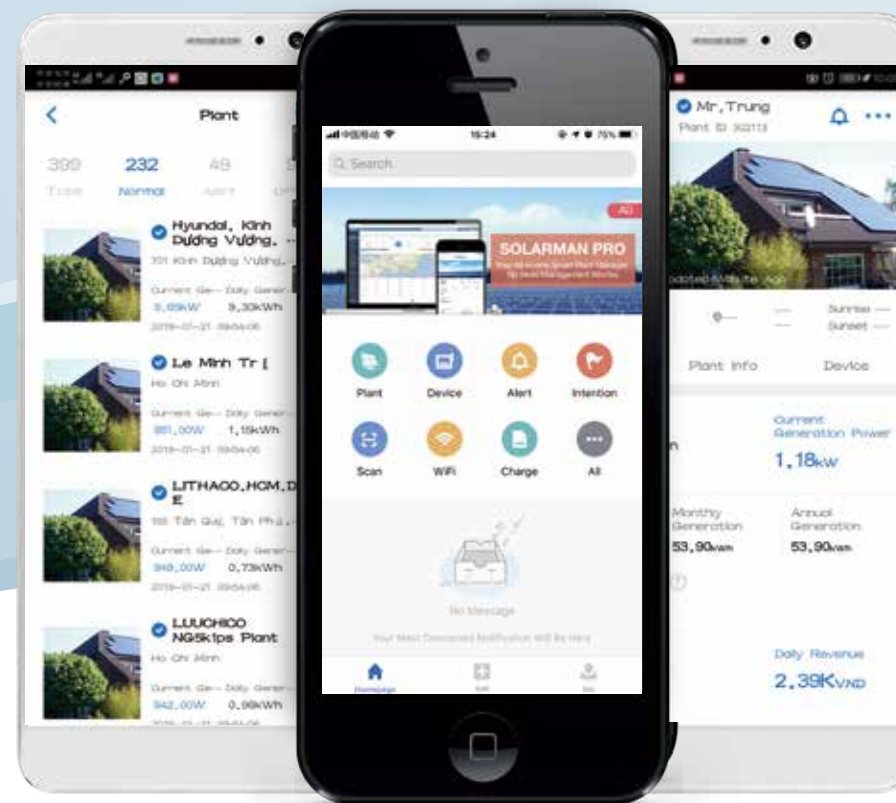


- Compatible with various devices, monitor system status comprehensively.
- New configuration function, simple on-site configuration merely with a smartphone.
- Customized PV plant profile, upload pictures of your own plants.
- Interact and share experience with SOLARMAN users worldwide.

SOLARMAN PRO WEB

pro.solarman.cn

SOLARMAN PRO APP



One-step management PV platform to share with 150,000 users worldwide

5 Function modules, lifecycle management of PV plant

Plant Construction

- PV resource evaluation
- Site selection and analysis
- Plant simulation
- Energy/income forecast

Plant O&M

- Plant data monitoring Real-time fault alarm
- Remote troubleshooting & debugging
- Online work order management
- Analysis & statistics on fault

Analysis & Statistics

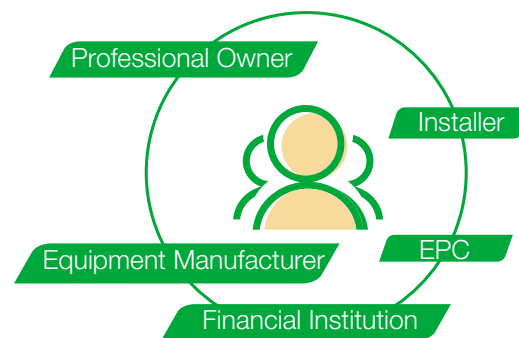
- Plant data statistics
- PR analysis and comparison
- Customized reports
- Regular online delivery of reports

Resource Sharing

- Global information sharing
- Online business cooperation
- Installer/O&M providers recommendations
- Fast plant construction

Asset Evaluation

- Plant asset evaluation
- ROI analysis
- Financial analysis/cash flow forecast

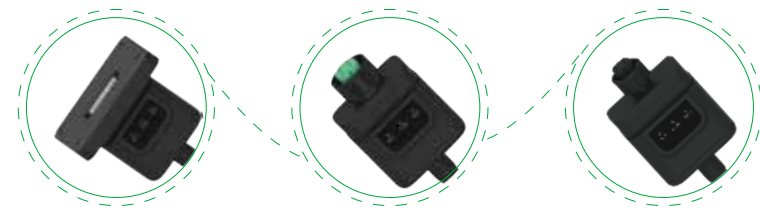


- GPS to facilitate site selection and plant construction.
- Connect logger directly, sending control commands (connect logger remotely to send control commands).
- Calculate estimated plant profit.
- Link plant owner.
- Personalized-recommending system.



Stick Logger

GPRS / WIFI / 5G / ETHERNET



- External light indicator, logging status at a glance.
- Plug and play, powered by inverter, no external power needed, easy to install.
- Independent from inverter to protect parts inside inverter, eliminate potential problems.
- Water-proof design, resistant to bad weather, enhance stability.
- External design, easier to replace faulty equipment.
- End user can monitor yields at any time with SOLARMAN APP.

	LSG-3	LSW-3	LSE-3
Remote communication	GPRS	WiFi	Ethernet
Frequency	GSM850/EGSM900/DCS1800/PCS1900MHz	2.142GHz~2.484GHz	10M/100M
Antenna	External GPRS Rod antenna	External WiFi Rod antenna	—
Local communication	RS485/RS232/TTL		
Voltage	DC4.7V~DC15V		
Power consumption (W)	3	1	1
SIM card	Chip card	—	
Memory	2MBYTE FLASH		
Operating temperature	-35°C~+80°C		
Operating humidity	<90%, non-condensation		
Number of connections	1		
Communication rate	9600bps(1200-115200bps Adjustable)		
Data collection intervals	Default 5min(1-15min Optional)		
User configuration	AT+Instruction Set		
	Remote server		
	Bluetooth 3.0 +EDR Configuration and access	—	
Firmware upgrade	Remote		
Others	Real-time control, data resuming transfer		

Inverter Logger

GPRS / WCDMA
WIFI / ETHERNET



GPRS / WCDMA:

- Ensure completeness of collected data. **Data resuming**
- Devices can be upgraded and debugged remotely for easy maintenance. **Remote upgrade**
- Realtime alerts with immediate notification for fast troubleshooting. **Alert notification**
- Industrial-level SIM chip integrated for stable operation and high performance. **Stable performance**
- High network coverage around the world. **Global roaming**
- Quick installation and easy operation with Plug & Play function. **Plug & Play**
- Suitable for rural areas where network connection is not available.
- Check the system status anytime and anywhere via online portal or app, no additional software required.

WIFI / ETHERNET:

- Ensure completeness of collected data. **Data resuming**
- Devices could be upgraded and debugged remotely for easy maintenance. **Remote upgrade**
- Realtime alerts with immediate notification for fast troubleshooting. **Alert notification**
- Embedded Web Server for quick data access and simple configuration.
- Check the system status anytime and anywhere via online portal or app, no additional software required.
- 100M Ethernet port for high-speed data transmission via cable network.

	LIG-1	LIM-1
General		
Max. number of inverters	Basic ver.:1 Advanced ver.:1-4 Professional ver.:1-10	Basic ver.:1 Advanced ver.:1-4 Professional ver.:1-10
Inverter communication	RS485	RS485
Remote communication	GSM/WCDMA	WiFi(802.11b/g/n)
Communication rate	1200-57600bps(Adjustable)	1200-19200bps(Adjustable)
Frequency	850/900/1800/1900MHz/2100MHz	2.4GHz
Communication range	—	400m in outdoor open area without obstruction
Transmitting power	2W(Max)/1W(Min)	802.11b/g/n:+20dBm/+18dBm/15dBm(Max)
Data collection intervals	5minutes(Dedault)/1-15minutes (Optional)	
Memory	EEPROM	
Preferences setting	Serial port AT instruction	Web Server/Serial port AT instruction
Data access	485/Remote server	Serial port/WiFi point-to-point/Remote server
Status display	4 LEDs	4 LEDs
Electrical		
Input voltage	DC 5V(+/-5%)	
Static power consumption (W)	<2	<1.6
Max. instantaneous power consumption (W)	<3	<2.5
Environmental		
Operating temperature	-25°C~+65°C	-10°C~+65°C
Operating humidity	10%-90% Relative humidity, non-condensation	
Storage temperature	-25°C~+65°C	-40°C~+85°C
Storage humidity	<40%	
Protection class	IP21	
Physical		
Dimension (L x W x H:mm)	110x80x24	110x80x26
Weight (g)	102	108
Other		
Installation method	Wall mounting	



Our service

Key information needed for maintenance

- Model, product serial No.
- Fault description
- Customer location and contacts

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





MEXICO 8KW RESIDENTIAL SOLAR SYSTEM

Location: Mexico Capacity: 8KW Model: MG2KTL, MG6KTL

Australia 5KW RESIDENTIAL SOLAR SYSTEM

Location: Australia Capacity: 5KW Model: MG5KTL



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: Hunan, China
Capacity: 1.8MW
Model: BG33KTR

Location: The Netherlands
Capacity: 600KW
Model: BG35KTR

ZHEJIANG 2.1MW COMMERCIAL SOLAR PLANT

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



WENZHOU 1.2MW COMMERCIAL SOLAR PLANT

Location: Wenzhou, China Capacity: 1.2MW Model: BG30KTR





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



Location: Australia Capacity: 2.3MW Model: BG35KTR

AUSTRALIA 2.3MW SOLAR PLANT



Location: Switzerland
Capacity: 580KW
Model: BG33KTR



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



ZHEJIANG 2.1MW COMMERCIAL SOLAR PLANT

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

HUNGARY 150KW COMMERCIAL SOLAR SYSTEM

Location: Hungary Capacity: 150KW Model: BG50KTR



Location: Australia
Capacity: 35KW
Model: BG30KTR, MG5KTL



Location: Shenzhen, China
Capacity: 40KW
Model: BG40KTR



Location: Xinjiang,China Capacity: 60MW Model: BG30KTR

XINJIANG 60MW SOLAR PLANT



AUSTRALIA 6MW SOLAR PLANT

Location: Australia Capacity: 6MW Model: BG30KTR



Location: Netherlands
Capacity: 180KW
Model: BG30KTR



Location: India
Capacity: 200KW
Model: BG50KTR

DONGGUAN 2.5WM COMMERCIAL SOLAR PLANT

Location: Dongguan,China Capacity: 2.5MW Model: BG35KTR



Location: Shanxi, China
Capacity: 10MW
Model: BG10KTR



HEBEI 13.8MW HILL SOLAR PLANT

Location: Hebei, China Capacity: 13.8MW Model: BG33KTR



Location: Melbourne, Australia
Capacity: 6KW
Model: MG6KTL



Location: Belgium
Capacity: 4KW
Model: MG4KTL



Location: Cambodia
Capacity: 20KW
Model: BD5KTL



Location: Henan, China
Capacity: 5KW
Model: BD5KTL

ARMENIA 10KW HYBRID SOLAR SYSTEM

Location: Armenia Capacity: 10KW Model: BD5KTL



Location: Xinjiang, China
Capacity: 1KW
Model: BN1024C



Location: Thailand
Capacity: 1KW
Model: BN1024C



Location: Nigeria Capacity: 6KW Model: BN1024C

NIGERIA 6KW OFF-GRID SOLAR SYSTEM



Location: Jiangsu,China Capacity: 500kW/1.8MWh Model: BD500KTR-T

JIANGSU 500KW/1.8MWH DISTRIBUTED ENERGY STORAGE SYSTEM



Location: Guangdong,China
Capacity: 500kW/1.8MWh
Model: BD500KTR-T



Location: Dongguan,China
Capacity: 500kW/1.5MWh
Model: BD500KTR-T



Location: Foshan,China
Capacity: 375kW/1.2MWh
Model: BD100KTR,BD250KTR-T



Location: Dongguan,China
Capacity: 500kW/300kWh
Model: BD500KTR



CHINA 500KW/1MWH DISTRIBUTED ENERGY STORAGE SYSTEM

Location: Guangdong,China Capacity: 500kW/1MWh Model: BD500KTR