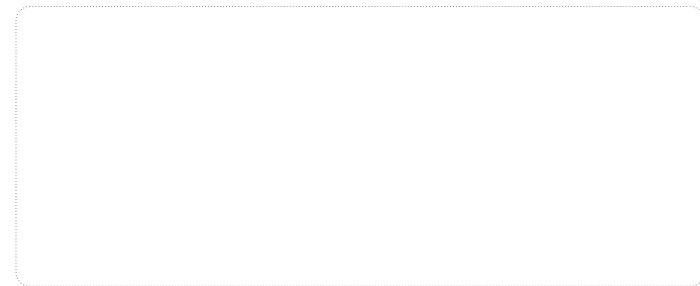


iMars B Series Grid-tied Solar Inverter

Innovation, Value, Teamwork



Service line : 86-755-86312834 Website : www.invt-solar.com E-mail : invt-solaros@invt.com.cn

SHENZHEN INVT ELECTRIC CO., LTD.

No. 4 Building, Gaofa Scientific Industrial Park, Longjing, Nanshan District, Shenzhen, China

Industrial Automation : ■ Frequency Inverter ■ Servo & Motion Control ■ Motor & Electric Spindle ■ PLC
 ■ HMI ■ Intelligent Elevator Control System ■ Traction Drive

Electric Power : ■ SVG ■ Solar Inverter ■ UPS ■ Online Energy Management System

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2013.07(V4.0)



G83/G59 C10/11 TF3.2.1



<< ABOUT INVT



INVT, established in 2002, is committed to being the globally leading and respected provider for products and services of industrial automation and electric power. In 2010, it listed as an A-share company on the Shenzhen Stock Exchange (stock code: 002334). INVT is a national-level high-tech company with eleven subsidiaries, whose business involves AC drive, industrial control, new energy, rail traction, servo and motion control, energy management, building intelligence system, PCL, HMI SVG, UPS, grid-tied solar inverters, etc.

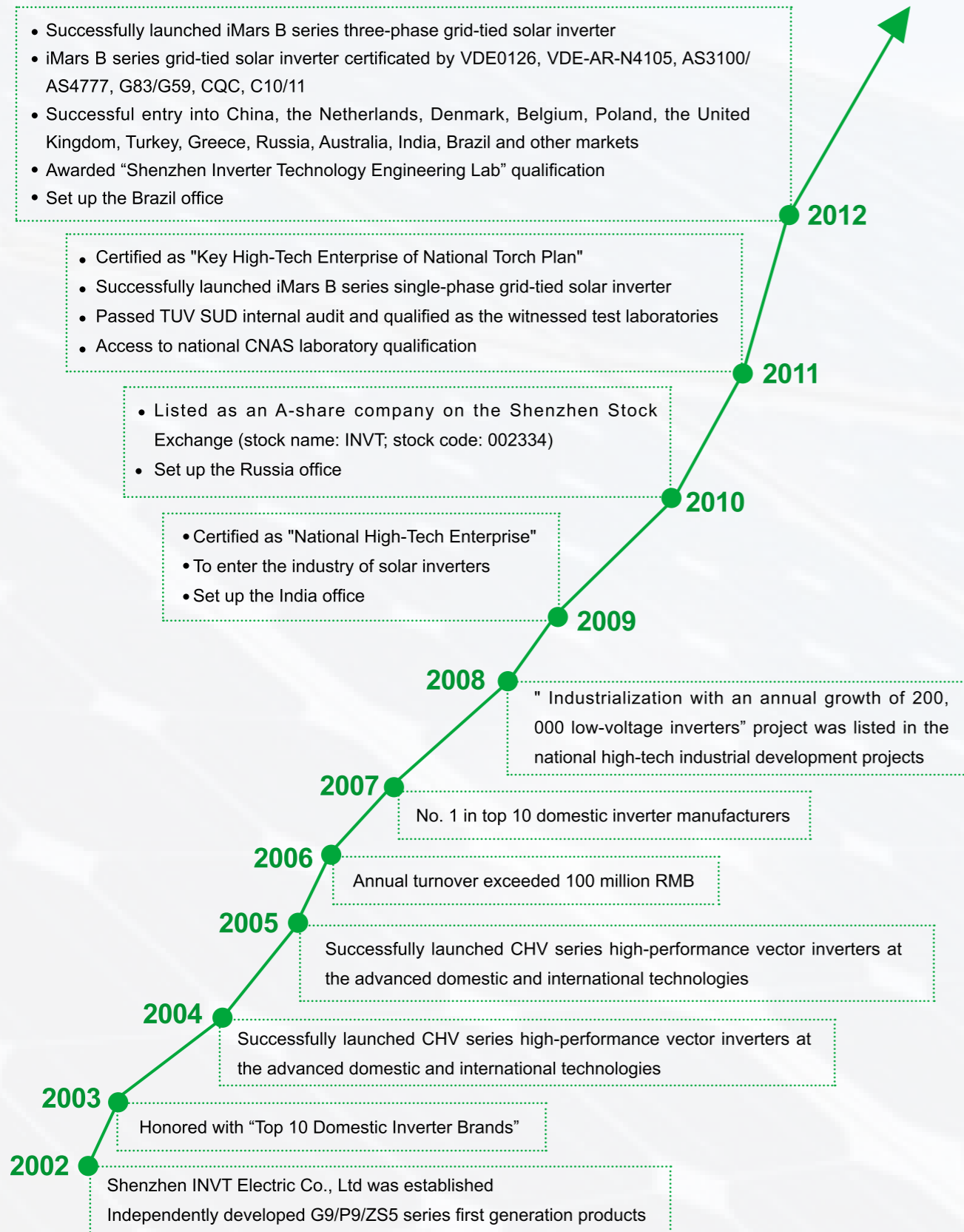
Up to now, over 1600 people are employed at the company's headquarter, and more than 30 offices are set up domestically and internationally. A consolidated sales and after-sales service network has been established over the world which can provide customers with solutions, technological training and specialized support.

INVT holds the leading position in its main business of inverter manufacturing, which can provide a wide range of high, medium, and low-voltage general-purpose and industry-specific inverters with voltage range of 220V-10kV and a power range between of 0.4-8000kW. They are widely applied to the industries of lifting, mining, metallurgy, textiles, machine tools, chemical, plastics, oil & gas, municipal, cement, power, etc. Except for the inverters, INVT can also provide customers with PLC, HMI, servo and motion systems, wind power inverters, static var generator (SVG) and grid-tied solar inverters.

INVT will continue to spare no efforts in reinforcing its position as a product, technology and market leader and leveraging its efficient management, high profitability and other clear competitive advantages as a leading brand to become a standard bearer for national industry. INVT always contribute the efforts to help customers improve production efficiency, save energy consumption and fulfill its social responsibilities.



Milestone



Products and Applications



Applications	Electric Drive	Industrial Control	Electric Power
	<ul style="list-style-type: none"> Inverters Intelligent Buildings Transit Traction Drives 	<ul style="list-style-type: none"> PLC/HMI Servo Systems High Efficiency Energy Saving Motors 	<ul style="list-style-type: none"> iMars Grid-tied Solar Inverter High Voltage Static Generators(SVG) UPS
Products & Solution			

<< SOLAR BUSINESS SUMMARY

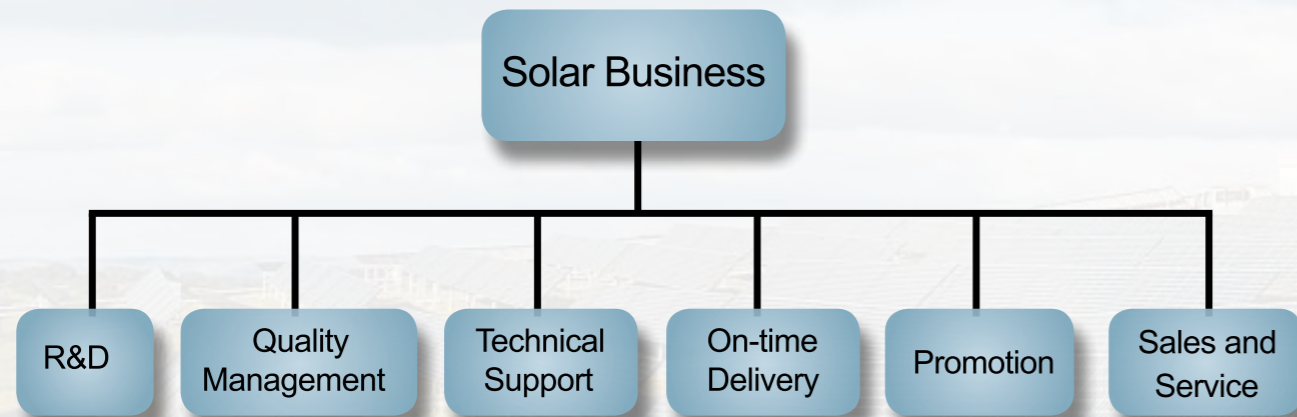
Solar Business

The solar inverter business is an important part of new energy in three core businesses of INVT (electric drive, industrial control, new energy).

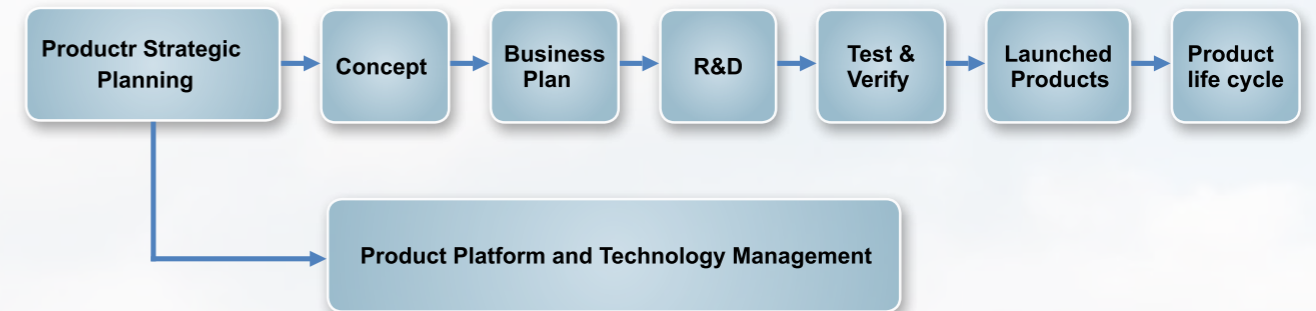
Based on the R&D platform of power electronics technology and the core inverter technology, INVT expands and extends its products and services. By years of accumulation in inverter research and application, upon the need of distributed grid-tied solar power system and the understanding of future development, adhering to the philosophy of stability, high efficiency and maintenance-free, INVT has successfully launched iMars series solar inverters, which establish unique technology dominance on aspects of efficient power conversion, low current harmonic and safe grid connection.

The products can be widely used for the distributed grid-tied solar power systems such as BIPV (roofs of residential areas, office buildings and factories), BAPV (integrated buildings) and commercial power stations, and provide green energy with high efficiency, safety, low cost for customers.

Business Platform



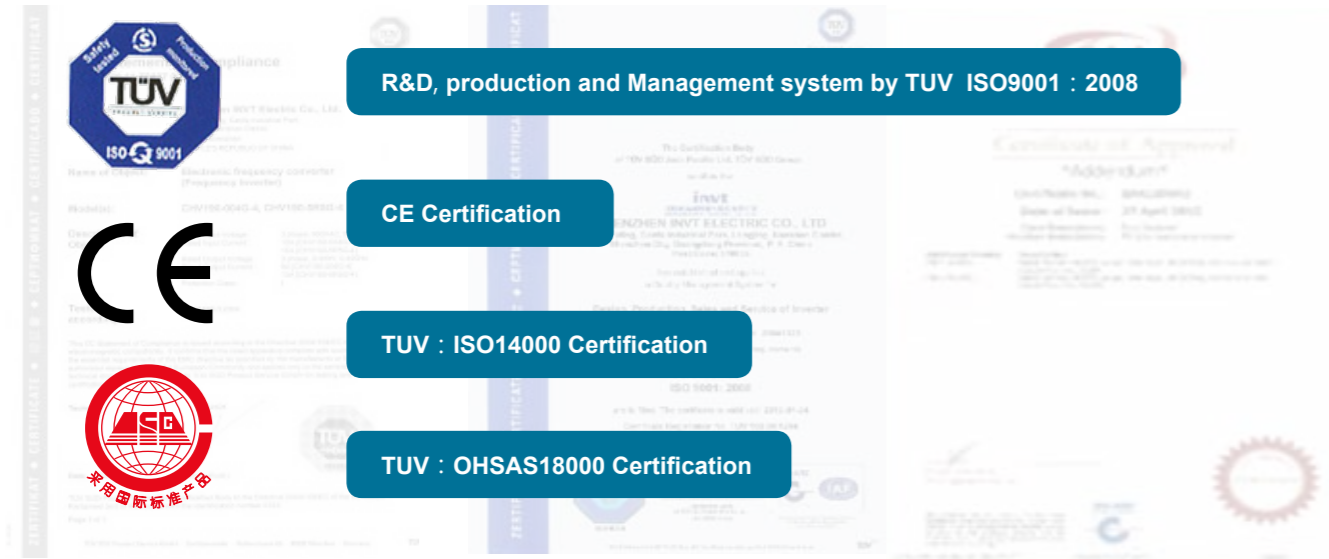
Professional Products R&D Process



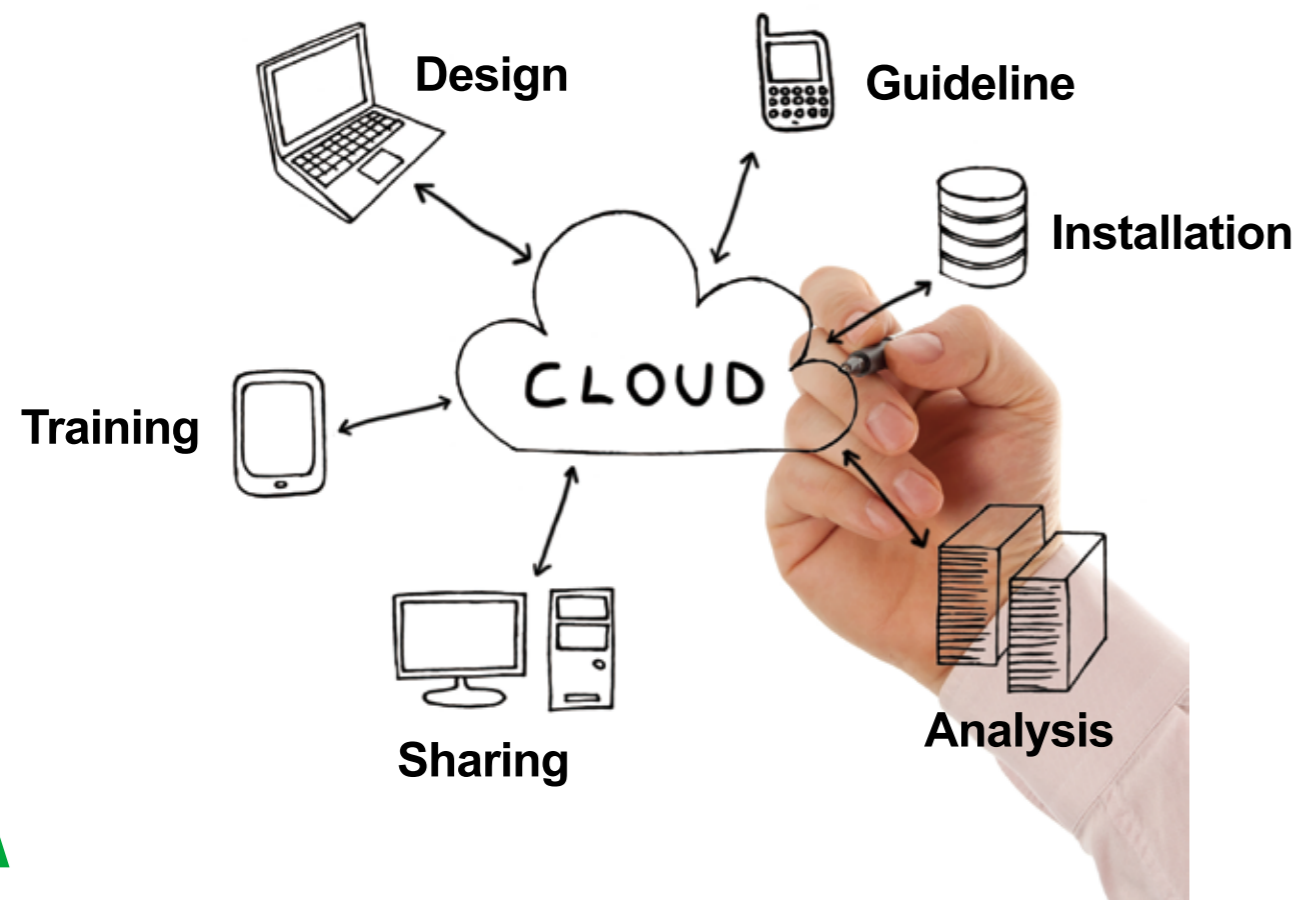
- ▶ 9 R & D centers
- ▶ 10% of sales revenue on R & D
- ▶ One of the makers of seven national inverter industry standards
- ▶ The only "Inverter Engineering Technology R & D center" in Shenzhen
- ▶ Shenzhen Solar Inverter Engineering Technology Lab
- ▶ National CNAS Lab
- ▶ The only manufacturer affixed TÜV-MARK Lab in Chinese industrial sector
- ▶ The only manufacturer awarded ACT qualification from TÜV-SUD in Chinese industrial sector

■ Total Quality Management

- Implementation of comprehensive modernization quality management, and application of advanced technology-on automatic and intelligent process control.



■ Expert Technical Support



■ Efficient and Effective Delivery

- Production bases located in Shenzhen, Shanghai, Suzhou, and Xi'an.
- Integrated supply chain management and control platform, total quality management system, efficient and effective operation, lean manufacturing, timely supply.





■ Comprehensive Promotion

- Exhibition



- Website



- Magazine



■ Global Sales and Service Network



INVT Headquarters

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Tel : 0086 755 86312834
Fax: 0086 755 86312880
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Add: Russia, Moscow, Balakavskij prospekt, Bldg.2. 2.
Tel: 0079 653 641 914
Email: fengguodong@invt.com.cn
City: Saint Petersburg
Add: A-317, Building 76, Line 7, Vasiliostrovskaya, Saint Petersburg, Russia.
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Add: 306, Kane Plaza, Link Road, Malad(W), Mumbai.
Tel: 0091 224 266 2796
Email: huangqi@invt.com.cn

Australia Region

City: Sydney
Add: 2702/2 Cunningham Street, Sydney, NSW 2000.
Tel: 0061 042 391 9633
 0061 027 901 5244
Email: panyongqiang@invt.com.cn

Mexico Region

City: Mexico City
Add: Col. Cuauhtemoc, Rio Guadalquivir #76. Interior 603. Mexico D.F.
Tel: 0052 (1) 442 438 5506
Email: luotao@invt.com.cn

Brazil Region

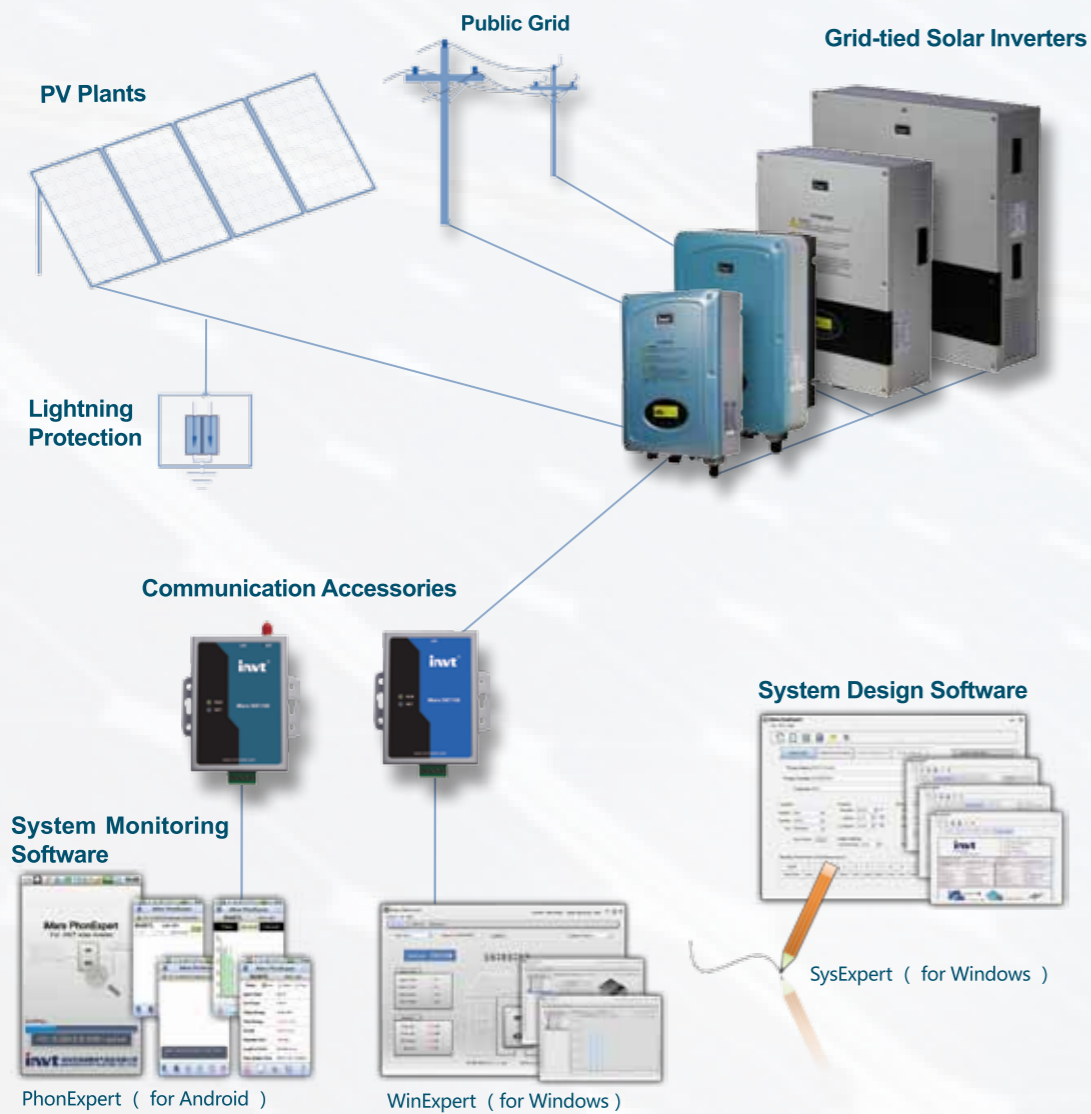
City: Sao Paulo
Add: Rua Ponta Delgada, 76, Vila Olimpia, 04548-020, Sao Paulo, SP, Brasil.
Tel: 0055 119 922 462 33
Email: tanbin@invt.com.cn

<< SOLAR PRODUCTS

Introduction

INVT iMars grid-tied solar inverters, which are convenient for applying high efficient and reliable single-phase and three-phase inverters to distributed grid-tied solar power system, along with matching communication module,

system design and monitoring software platform, offer the power system higher safety and efficiency, lower cost and higher return.



Certifications



- Single-phase Grid-tied Solar Inverters: BG1K5T BG2K2TL BG3KTL BG4KTL BG5KTL BG6KTL
- Three-phase Grid-tied Solar Inverters: BG6KTR BG8KTR BG10KTR BG12KTR BG15KTR BG20KTR BG25KTR BG30KTR
- Communication Accessories: ENET100 WiFi100
- System Monitoring Software: PhonExpert WinExpert
- System Design Software: SysExpert



Product Advantages

■ Dual-DSP Control Platform

Higher precision of Dual-DSP control platform
More stable and reliable for your solar system



■ LCD Display

User friendly interface

- 3.5 inches LCD display
- Multilingual and graphics display
- Easy to monitor running states and view current power generation, profits and record history



■ DC Switch

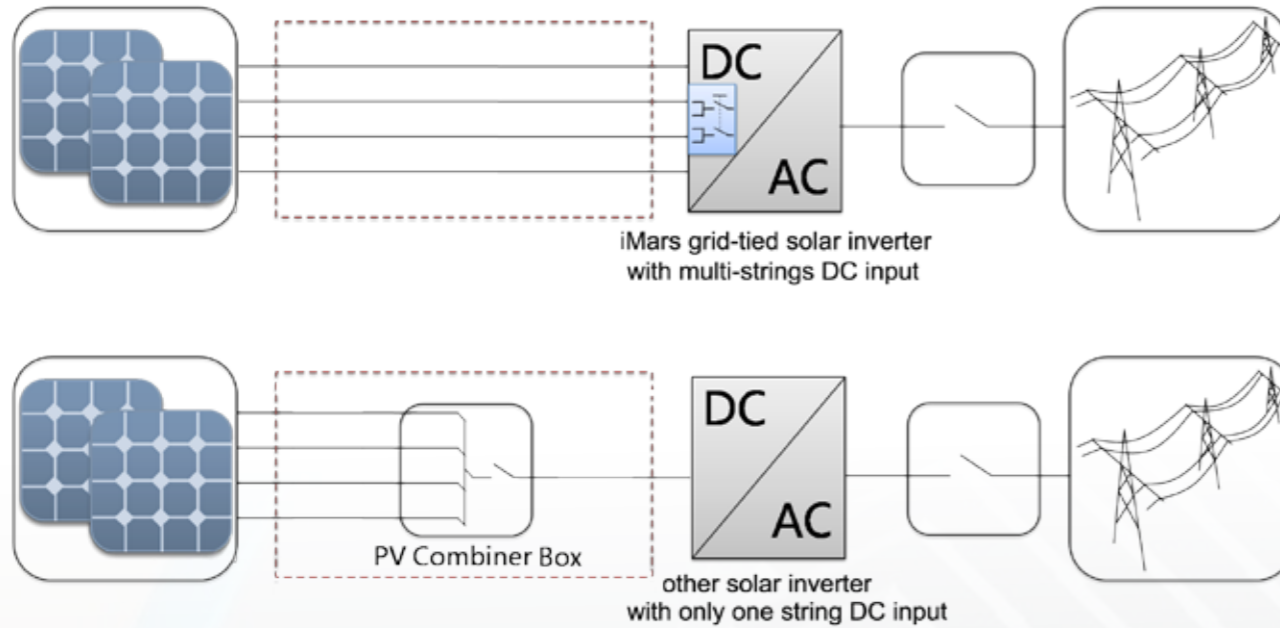
Rotary actuator switch (Lockable-off)

- High speed switch (<5ms)
- Maximum torque 1Nm for easy operation
- Panel mounting, IP66
- Rotary handle



■ Multi-Strings DC Input

Easy and cost-effective for system installation



■ Thermal Simulation Technology

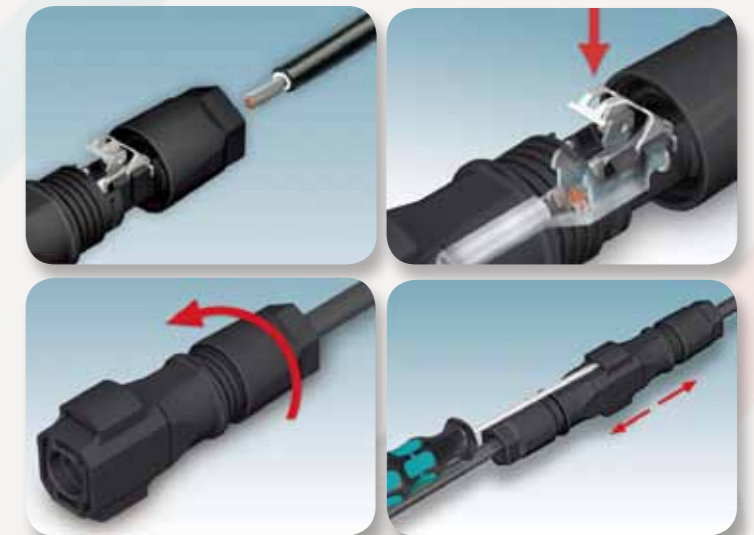
- System-level thermal simulation technologies
- Higher reliability and longer lifetime.



■ SUNCLIX Connectors

Easy, reliable and toolless

- Easy connection with DC plug-in connectors
- Compatible with 2.5-6mm² PV cables
- Disconnection with a screwdriver only
- Made of MPPE
- IP68 protection (24h/2m)



Single-phase Solar Inverter

BG1K5TL BG2K2TL BG3KTL

Product Description

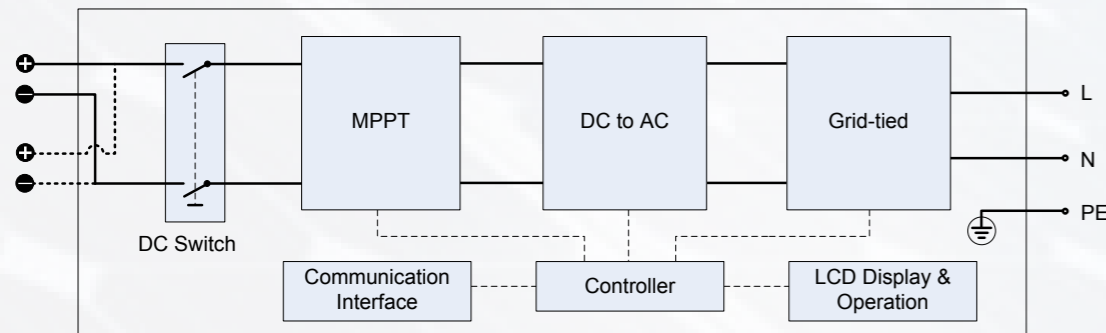
1.5kW ~ 3kW single-phase inverters with stable and reliable circuit structure, beautiful and stylish shape, support 1 high efficiency MPPT tracking input, suitable for small grid-tied PV systems, such as family roof systems, etc..



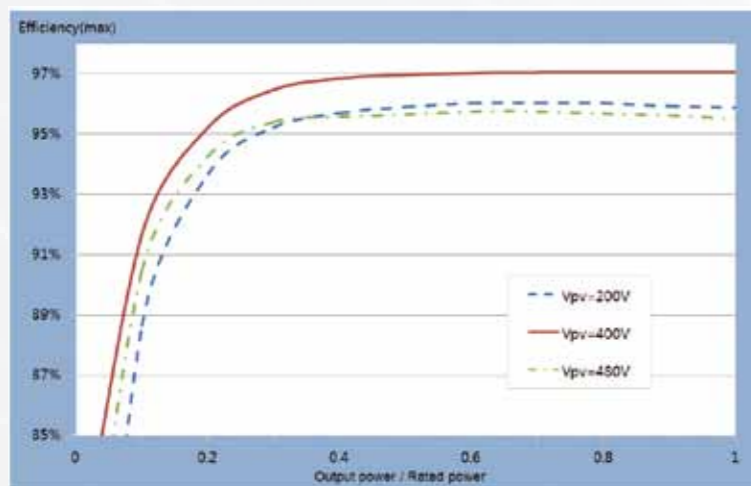
Features

- Optimized electric control technology, over 97.30% efficiency;
- Advanced and high efficiency MPPT algorithms, max tracking efficiency up to 99.9%;
- Large LCD interface, easy to view and configure;
- Build-in lock with high accuracy: records real-time information accurately; keeps running for 14 days or more once system loses power;
- Perfect fault diagnosis, protection, records, inquiries and other functions, easy troubleshooting;
- System-level thermal simulation technologies, higher reliability and longer lifetime;
- IP65 protection and Anti-theft design, suitable for any kind of outdoor environments;
- Strong networking, flexible to support RS485, WiFi, Ethernet and other communication modes.

Inverter Topology



Power Efficiency



Specification

	BG1K5TL	BG2K2TL	BG3KTL
Input (DC)			
Max. DC voltage (V)	500		
Starting voltage (V)	100		
MPPT operating voltage range (V)	120- 450		
Rated power voltage range (V)	180 - 450	180 - 450	200 - 450
Number of MPPT/ string per MPPT	1/1	1/1	1/2
Max. DC power (W)	1800	2500	3250
Max. DC current (A) per MPPT x number of MPPT	9x1	11x1	15x1
DC switch	Optional		
Output (AC)			
Rated output power (W)	1500	2200	3000
Max. AC output current (A)	7.5	11	15
AC voltage rang	180~270Vac According to VDE0126-1-1(VDE-AR-N4105), G83/1, G59/2, C10/11, TF3.2.1, AS4777/3100, CQC		
Grid frequency	50Hz(47~51.5Hz) / 60Hz(57~61.5Hz)		
Power factor	≥0.99(at rated power)		
THD	< 3% (at rated power)		
AC connection	Single-phase (L, N, PE)		
System			
Cooling	Natural cooling	Natural cooling	Natural cooling
Maximum efficiency	96.90%	97.2%	97.3%
European efficiency	96.00%	96.1%	96.3%
MPPT efficiency	99.9%		
Protection degree	IP65		
Power consumption at night	<1W		
Isolation mode	Transformerless		
Running temperature	-25°C ~ +60°C, derate after 45°C		
Relative humidity	0~95%, no condensation		
Protection	DC isolation monitoring, DC monitoring, grounding fault monitoring, grid monitoring, island protection, overvoltage and short circuit protection, etc.		
Display and Communication			
Display	3.5inches LCD display, support backlit display		
System language	English, Chinese		
communication mode	RS485(Standard) WiFi, Ethernet(Optional)		
Mechanical Parameters			
Dimension (H x W x D mm)	460x328x172		
Weight (KG)	≤16.5		
Installation	Wall mounting		
Others			
DC terminal	SUNCLIX water-proof terminal		
Certifications	TÜV, CE, VDE0126-1-1(VDE-AR-N4105), G83/1, G59/2, C10/11, TF3.2.1, AS4777/3100, CQC EN61000-6-1:4, EN61000-3-2:3, EN61000-11:12; IEC 62109-1:2010		

Single-phase Solar Inverter

BG4KTL BG5KTL BG6KTL

Product Description

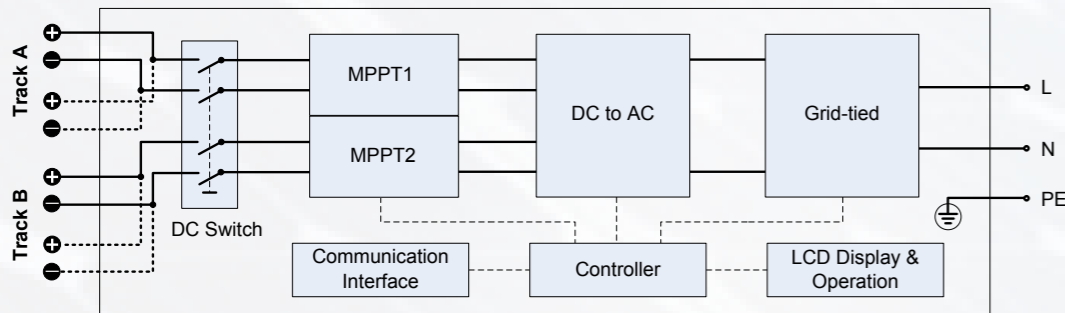
4kW ~ 6kW single-phase inverters with stable and reliable circuit structure, beautiful and stylish shape, support 2 high efficiency MPPT tracking inputs, suitable for small grid-tied PV system, such as family and commercial roof systems, etc..



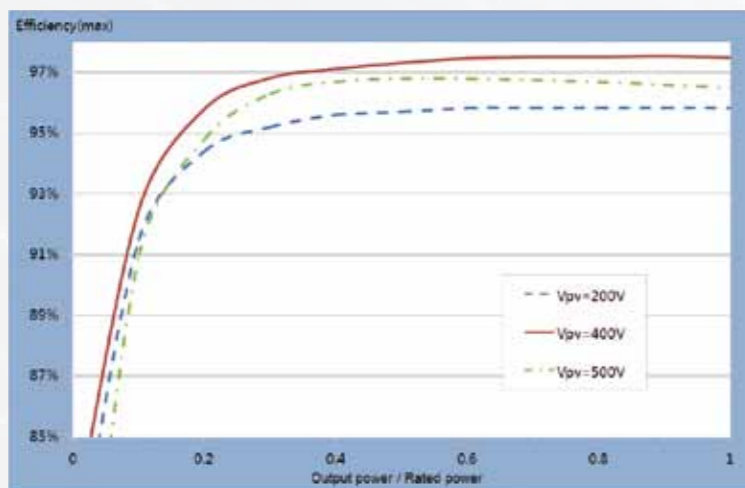
Features

- Optimized electric control technology, over 97.60% efficiency;
- Advanced dual-MPPT algorithms, max tracking efficiency up to 99.9%;
- Large LCD interface, easy to view and configure;
- Build-in lock with high accuracy: records real-time information accurately; keeps running for 14 days or more once system loses power;
- Perfect fault diagnosis, protection, records, inquiries and other functions, easy troubleshooting;
- System-level thermal simulation technologies, higher reliability and longer lifetime;
- IP65 protection and Anti-theft design, suitable for any kind of outdoor environments;
- Strong networking, flexible to support RS485, WiFi, Ethernet and other communication modes.

Inverter Topology



Power Efficiency



Specification

	BG4KTL	BG5KTL	BG6KTL
Input (DC)			
Max. DC voltage (V)	550		
Starting voltage (V)	100		
MPPT operating voltage range (V)	120 - 500		
Rated power voltage range (V)	200 - 500	200 - 500	200 - 500
Number of MPPT/ string per MPPT	2/1	2/1	2/2
Max. DC power (W)	4300	5300	6400
Max. DC current (A) per MPPT x number of MPPT	12x2	14x2	16x2
DC switch	Optional (Lockable-off)		
Output (AC)			
Rated output power (W)	4000	5000	6000
Max. AC output current (A)	20	26	29
AC voltage rang	180~270Vac According to VDE0126-1-1(VDE-AR-N4105), G83/1, G59/2, C10/11, TF3.2.1, AS4777/3100, ENEL, CQC		
Grid frequency	50Hz(47~51.5Hz) / 60Hz(57~61.5Hz)		
Power factor	≥0.99 (at rated power)		
THD	< 3% (at rated power)		
AC connection	Single-phase (L, N, PE)		
System			
Cooling	Natural cooling	Natural cooling	Fan cooling
Maximum efficiency	97.40%	97.60%	97.60%
European efficiency	96.50%	96.50%	96.50%
MPPT efficiency	99.9%		
Protection degree	IP65		
Power consumption at night	<1W		
Isolation mode	Transformerless		
Running temperature	-25°C ~ +60°C, derate after 45°C		
Relative humidity	0~95%, no condensation		
Protection	DC isolation monitoring, DC monitoring, grounding fault monitoring, grid monitoring, island protection, overvoltage and short circuit protection, etc.		
Display and Communication			
Display	3.5inches LCD display, support backlit display		
System language	English, Chinese		
communication mode	RS485(Standard) WiFi, Ethernet(Optional)		
Mechanical Parameters			
Dimension (H x W x D mm)	560x415x190		
Weight (KG)	≤25.5		
Installation	Wall mounting		
Others			
DC terminal	SUNCLIX water-proof terminal		
Certifications	TÜV, CE, VDE0126-1-1(VDE-AR-N4105), G83/1, G59/2, C10/11, TF3.2.1, AS4777/3100, CQC EN61000-6-1:4, EN61000-3-2:3, EN61000-11:12; IEC 62109-1:2010		

Three-Phase Solar Inverter

BG6KTR BG8KTR BG10KTR BG12KTR BG15KTR

Product Description

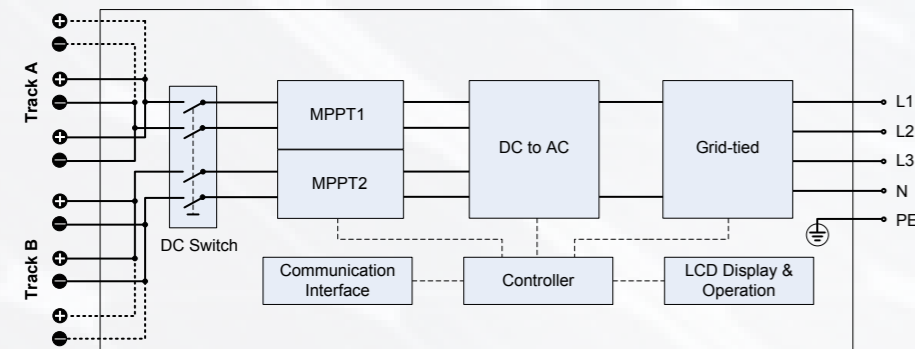
6kW ~ 15kW three-phase inverters with advanced three-level technology, compact design, support 2 high efficiency MPPT tracking inputs, suitable for small or medium-sized grid-tied PV systems, such as commercial and industrial areas plant roof systems, etc..



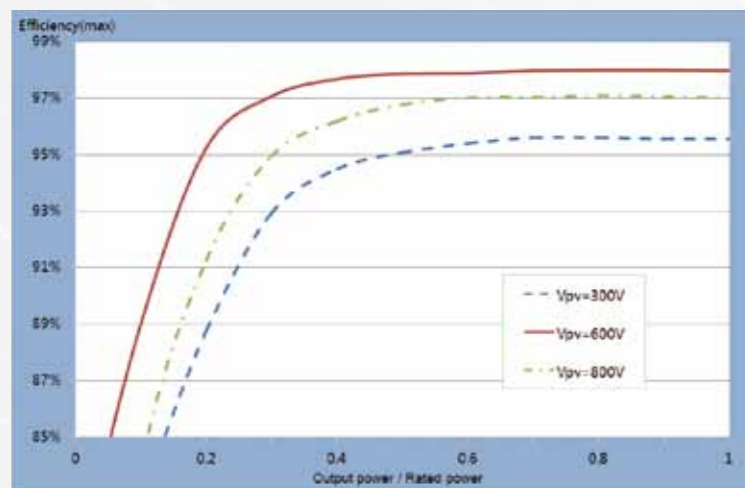
Features

- Optimized electric control technology, over 98% efficiency;
- Advanced dual-MPPT algorithms, max tracking efficiency up to 99.9%;
- Large LCD interface, easy to view and configure;
- Build-in lock with high accuracy: records real-time information accurately; keeps running for 14 days or more once system loses power;
- Perfect fault diagnosis, protection, records, inquiries and other functions, easy troubleshooting;
- System-level thermal simulation technologies, higher reliability and longer lifetime;
- IP65 protection and Anti-theft design, suitable for any kind of outdoor environments;
- Strong networking, flexible to support RS485, WiFi, Ethernet and other communication modes.

Inverter Topology



Power Efficiency



Specification

	BG6KTR	BG8KTR	BG10KTR	BG12KTR	BG15KTR
Input (DC)					
Max. DC voltage (V)	1000				
Starting voltage (V)	180				
MPPT operating voltage range (V)	180- 800				
Rated power voltage range (V)	200 - 800	250 - 800	250 - 800	300 - 800	380 - 800
Number of MPPT/ string per MPPT	2/2	2/2	2/3	2/3	2/3
Max. DC power (W)	6400	8400	10400	12500	15600
Max. DC current (A) per MPPT x number of MPPT	16x2	21x2	21x2	21x2	21x2
DC switch	Integrated (Lockable-off)				
Output (AC)					
Rated output power (W)	6000	8000	10000	12000	15000
Max. AC output current (A)	10	13	15	20	24
AC voltage rang	320~460Vac According to VDE0126-1-1(VDE-AR-N4105), G83/1, G59/2, C10/11, TF3.2.1, AS4777/3100, CQC				
Grid frequency	50Hz(47~51.5Hz) / 60Hz(57~61.5Hz)				
Power factor	-0.9~+0.9 (Adjustable)				
THD	< 3% (at rated power)				
AC connection	Three-phase (L1, L2, L3, N, PE)				
System					
Cooling	Fan cooling	Fan cooling	Fan cooling	Fan cooling	Fan cooling
Maximum efficiency	97.50%	97.80%	98.00%	98.00%	98.00%
European efficiency	97.00%	97.00%	97.50%	97.50%	97.50%
MPPT efficiency	99.9%				
Protection degree	IP65				
Power consumption at night	<1W				
Isolation mode	Transformerless				
Running temperature	-25°C ~ +60°C, derate after 45°C				
Relative humidity	0~95%, no condensation				
Protection	DC isolation monitoring, DC monitoring, grounding fault monitoring, grid monitoring, island protection, overvoltage and short circuit protection, etc.				
Display and Communication					
Display	3.5inches LCD display, support backlit display				
System language	English, Chinese				
communication mode	RS485(Standard) WiFi, Ethernet(Optional)				
Mechanical Parameters					
Dimension (H x W x D mm)	656x494x206				
Weight (KG)	≤35.5				
Installation	Wall mounting				
Others					
DC terminal	SUNCLIX water-proof terminal				
Certifications	TÜV, CE, VDE0126-1-1(VDE-AR-N4105), G83/1, G59/2, C10/11, TF3.2.1, AS4777/3100, CQC EN61000-6-1:4, EN61000-3-2:3, EN61000-11:12; IEC 62109-1:2010				

Three-Phase Solar Inverter

BG20KTR BG25KTR BG30KTR

Product Description

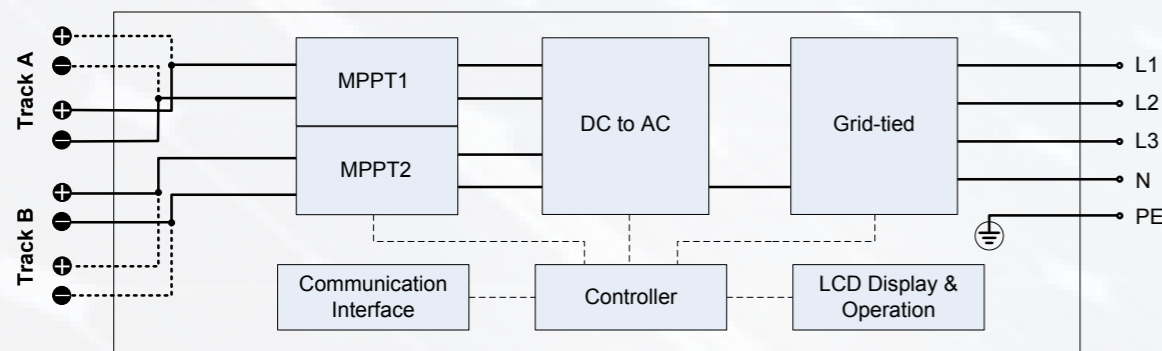
20kW ~ 30kW three-phase inverters with advanced three-level technology, compact design, support 2 high efficiency MPPT tracking inputs, are suitable for medium or large-scale grid-tied PV system, such as commercial and industrial areas plant roof systems, etc..



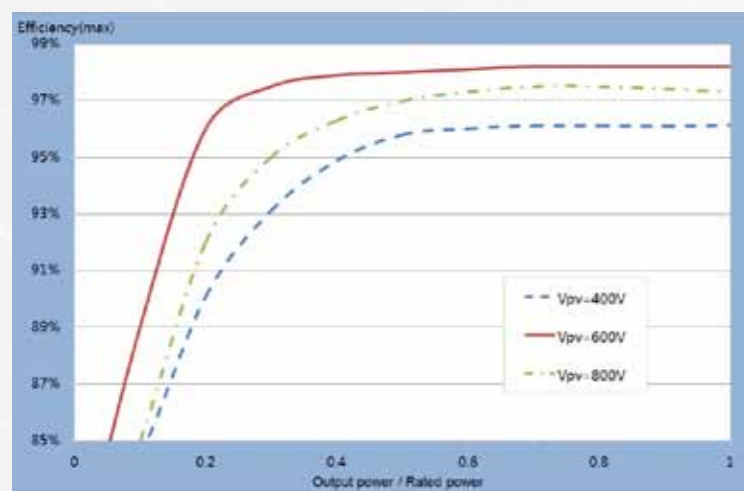
Features

- Optimized electric control technology, over 98.2% efficiency;
- Advanced MPPT algorithms, suitable for installing solar modules with different angles, max tracking efficiency up to 99.9%;
- Large LCD HMI, easy to view and configure;
- Build-in a high-accuracy clock: records real-time information accuracy; keeps running for 14 days or more once system loses power;
- Perfect diagnosis, protection, records, inquires and other functions, easy troubleshooting;
- System-level thermal simulation technologies, to ensure products' reliability and lifetime;
- IP65 protection degree and anti-theft design, suitable for any kind of outdoor environments;
- Strong networking, to support RS485, WiFi, Ethernet and other communication models flexibly;
- Support wall or vertical mounting, flexible to choose the installation mode according to the site.

Inverter Topology



Power Efficiency



Specification

	BG20KTR	BG25KTR	BG30KTR
Input (DC)			
Max. DC voltage (V)	1000		
Starting voltage (V)	300		
MPPT operating voltage range (V)	280 - 800		
Rated power voltage range (V)	400 - 800	430- 800	470 - 800
Number of MPPT/ string per MPPT	2/1 (2/2 Optional)	2/1 (2/2 Optional)	2/1 (2/2 Optional)
Max. DC power (W)	20800	26000	31200
Max. DC current (A) per MPPT x number of MPPT	26x2	30x2	33x2
DC switch	No		
Output (AC)			
Rated output power (W)	20000	25000	30000
Max. AC output current (A)	32	40	48
AC voltage rang	320~460Vac		
	According to VDE0126-1-1(VDE-AR-N4105), G83/1, G59/2, C10/11, TF3.2.1, AS4777/3100, CQC		
Grid frequency	50Hz(47~51.5Hz) / 60Hz(57~61.5Hz)		
Power factor	-0.9~+0.9 (Adjustable)		
THD	< 3% (at rated power)		
AC connection	Three-phase (L1, L2, L3, N, PE)		
System			
Cooling	Fan cooling	Fan cooling	Fan cooling
Maximum efficiency	98.20%	98.20%	98.20%
European efficiency	97.50%	97.50%	97.50%
MPPT efficiency	99.9%		
Protection degree	IP65		
Power consumption at night	<1W		
Isolation mode	Transformerless		
Running temperature	-25°C ~ +60°C, derate after 45°C		
Relative humidity	0~95%, no condensation		
Protection	DC isolation monitoring, DC monitoring, grounding fault monitoring, grid monitoring, island protection, overvoltage and short circuit protection, etc.		
Display and Communication			
Display	3.5inches LCD display, support backlit display		
System language	English, Chinese		
communication mode	RS485(Standard) WiFi, Ethernet(Optional)		
Mechanical Parameters			
Dimension (H x W x D mm)	814x626x234		
Weight (KG)	≤60		
Installation	Wall mounting(Optional vertical mounting)		
Others			
DC terminal	SUNCLIX water-proof terminal		
Certifications	TÜV, CE, VDE0126-1-1(VDE-AR-N4105), G83/1, G59/2, C10/11, TF3.2.1, AS4777/3100, CQC EN61000-6-1:4, EN61000-3-2:3, EN61000-11:12; IEC 62109-1:2010		

Optional Accessories


Communication Accessories

■ iMars ENET100 Communications Server

iMars ENET100 Communications Server can convert data in dual direction between EXT (RS485) and Ethernet with the characteristics of cable transmission, high speed, stable signal, and little impact from the environment. It is flexible to set up a LAN or WAN, and control the operation of iMars grid-tied solar inverter anytime and anywhere through terminal display device and monitoring software (iMars WinExpert for Windows system or iMars PhonExpert for Android system).



■ Specification

Model	Specification		Accessories
iMars ENET100	Serial Port	RS485 1pcs	 Power Adapter
	Ethernet	10/100Mbps 1pcs	
	Operating Voltage	9~24VDC(Recommend 12VDC)	
	Operating Current	<200mA	
	Operating Temperature	-20°C~+60°C	
	Storage Temperature	-40°C~+70°C	
	Work Humidity	5~95%RH Non-condensing	
	Size	99×65×25.5mm	
	Configure Environment	IE browser configuration	




* Photos for reference only.

■ iMars WiFi100 Communications Server

iMars WiFi100 Communications Server can convert data in dual direction between EXT (RS485) and Ethernet with the characteristics of cable transmission, high speed, stable signal and easy wiring layout. It is flexible to set up a LAN or WAN, and control the operation of iMars grid-tied solar inverter anytime and anywhere through terminal display device and monitoring software (iMars WinExpert for Windows system or iMars PhonExpert for Android system).



■ Specification

Model	Specification		Accessories
iMars WiFi100	Serial Port	RS485 terminal blocks 1pcs	 Power Adapter
	WiFi Transmission Distance	about 100m(no barrier)	
	Ethernet	10/100Mbps 1pcs	
	Operating Voltage	+7~+30VDC(Recommend 12VDC)	 Aerial
	Operating Current	<200mA	
	Operating Temperature	-20°C~+60°C	 Ethernet Cable
	Storage Temperature	-40°C~+70°C	
	Work Humidity	5~95%RH Non-condensing	
	Size	115×80×26mm	
	Configure Environment	IE browser configuration	

* Photos for reference only.





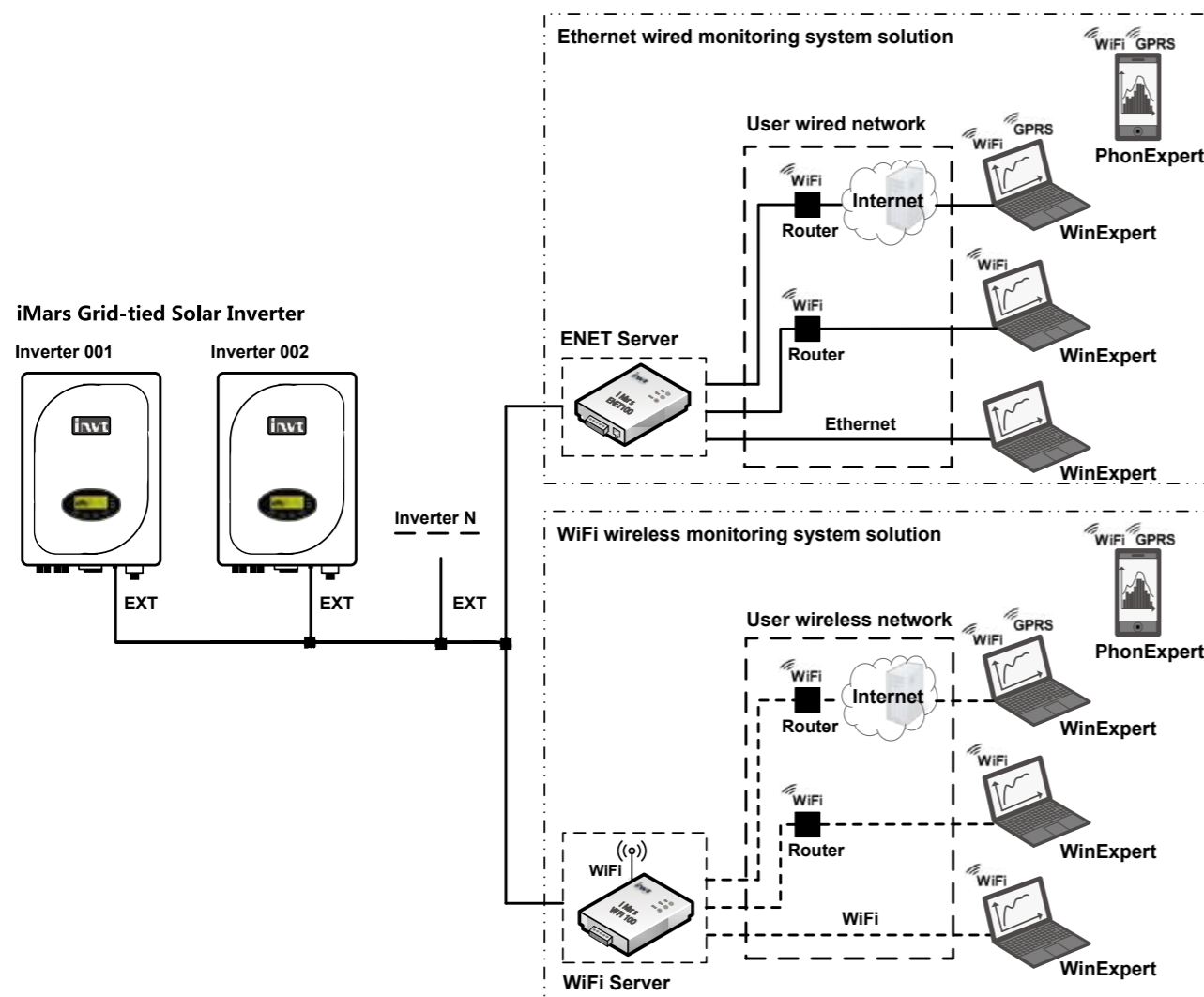
Anti-Feedback Accessories iMars AFC100 Controller

■ Product Description

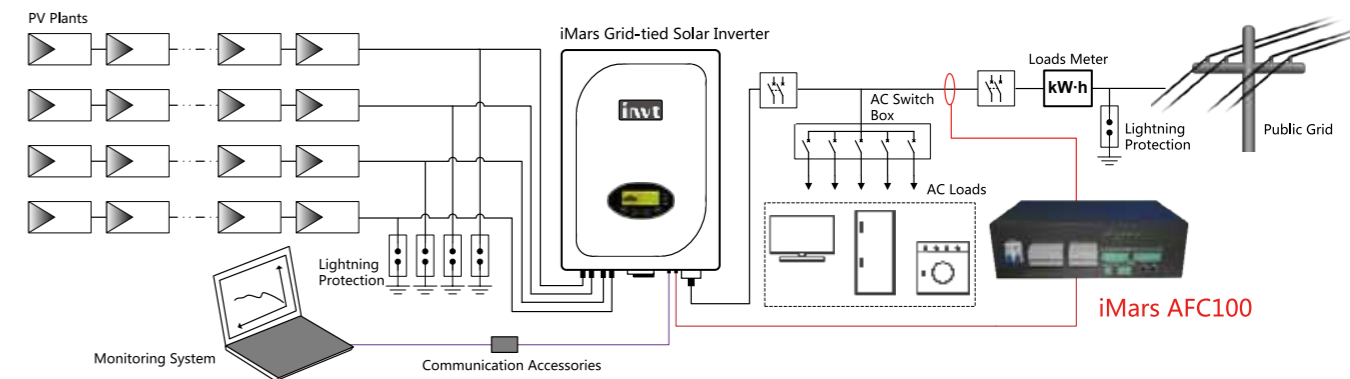
iMars AFC100 is a anti-feedback controller, designed for controlling iMars grid-tied solar inverter output power to supply local AC loads. The grid-tied PV system, formed by iMars AFC100 controller and iMars B series grid-tied solar inverter, can automatically adjust output power to match the power consumed by local AC loads. iMars AFC100 controller is used for a special kind of grid-tied PV systems whose output is just for powering the local AC loads, not to feed into public grid.



■ iMars B Series Solar Inverter Monitoring System Solution



■ iMars B Series Solar Inverter anti-feedback System Solution



■ Specification

Model	Specification	Accessories	
iMars AFC100	3-phase AC voltage range	0~500V	
	3-phase AC current range	0 ~ 5A (transformer access type)	
	Analog Input	7 pcs (0 ~ 10V / 4 ~ 20mA/ -10 ~ 10V)	
	ON / OFF input	5 pcs	
	ON / OFF output	1 pcs	
	RS485 interface	2 pcs	
	Ethernet Interface	2 pcs	
	Operating temperature	-20°C~+60°C	
	Storage Temperature	-40°C~+70°C	
	Ambient humidity	5 ~ 95% RH non-condensing	
	Protection	IP20	
	Power consumption	<15W	
	Display	LED	
	Dimensions	430×300×130mm	

Solar Inverter Supporting Software

iMars WinExpert , iMars PhonExpert Solar Inverter Monitoring Software

Introduction

WinExpert and PhonExpert are designed specifically for iMars B series grid-tied solar inverters, to monitor grid-tied solar system. The user can use the PC or handheld terminal equipment to connect iMars solar inverter. iMars

WinExpert and PhonExpert can display and record the real-time parameters, statuses, historical data and alarm information of the overall solar system and the single iMars solar inverter.



iMars WinExpert for Windows



iMars PhonExpert for Android

Features

Multi-level User Management

- Guest, as a primary user, can browse over software settings and PV system parameters;
- Administrator, as a professional user, can change the software settings; modify the system configuration, and so on;

User-friendly Interface

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

Powerful Analysis Capabilities

- Power output per day, week, month and year;
- CO2 emission reductions, power generation profit;

Function

	iMars WinExpert	iMars PhonExpert
Software features	<ul style="list-style-type: none"> •User login •The system generating capacity, economic benefits and environmental benefits •Software settings •View and print the system information •View the inverters real-time status •Add and remove inverters •Communication management •E-mail system 	<ul style="list-style-type: none"> •The system generating capacity, economic benefits and environmental benefits •Software settings •View the inverters real-time status •Add and remove inverters •Communication management

iMars SysExpert Solar System Design Software

Introduction

iMars SysExpert, an easy-to-use professional grid-tied PV system design software, is designed specifically for iMars B series grid-tied solar inverter. 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 and then output a professional design report within a few minutes.



iMars SysExpert (for Windows)

Features

Easy-to-use and Professional

- User-friendly Interface;
- Three-step design process;
- Professional design report;

Constantly Updated Database Support

- Solar module database;
- INVT iMars grid-tied solar inverter database;
- Geographic meteorological database;

Powerful System of Mathematical Analysis Model

- Components-matching analysis model;
- Power loss analysis model;
- CO2 emission reductions analysis model;
- Power generation profit analysis model.

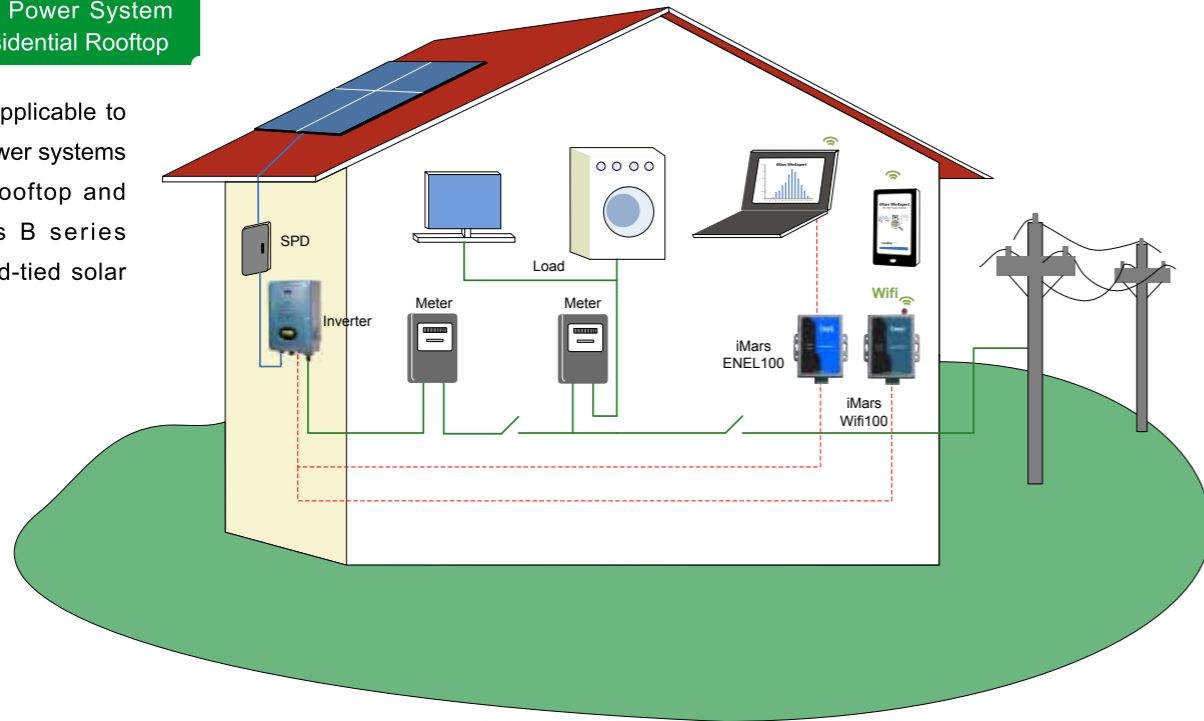
Function

	iMars SysExpert
Software features	<ul style="list-style-type: none"> •New Project <ol style="list-style-type: none"> (1) Project Data (2) Component Selection (3) System Configuration (4) Design Summary •Open Project •Design Guide

<< TYPICAL APPLICATIONS

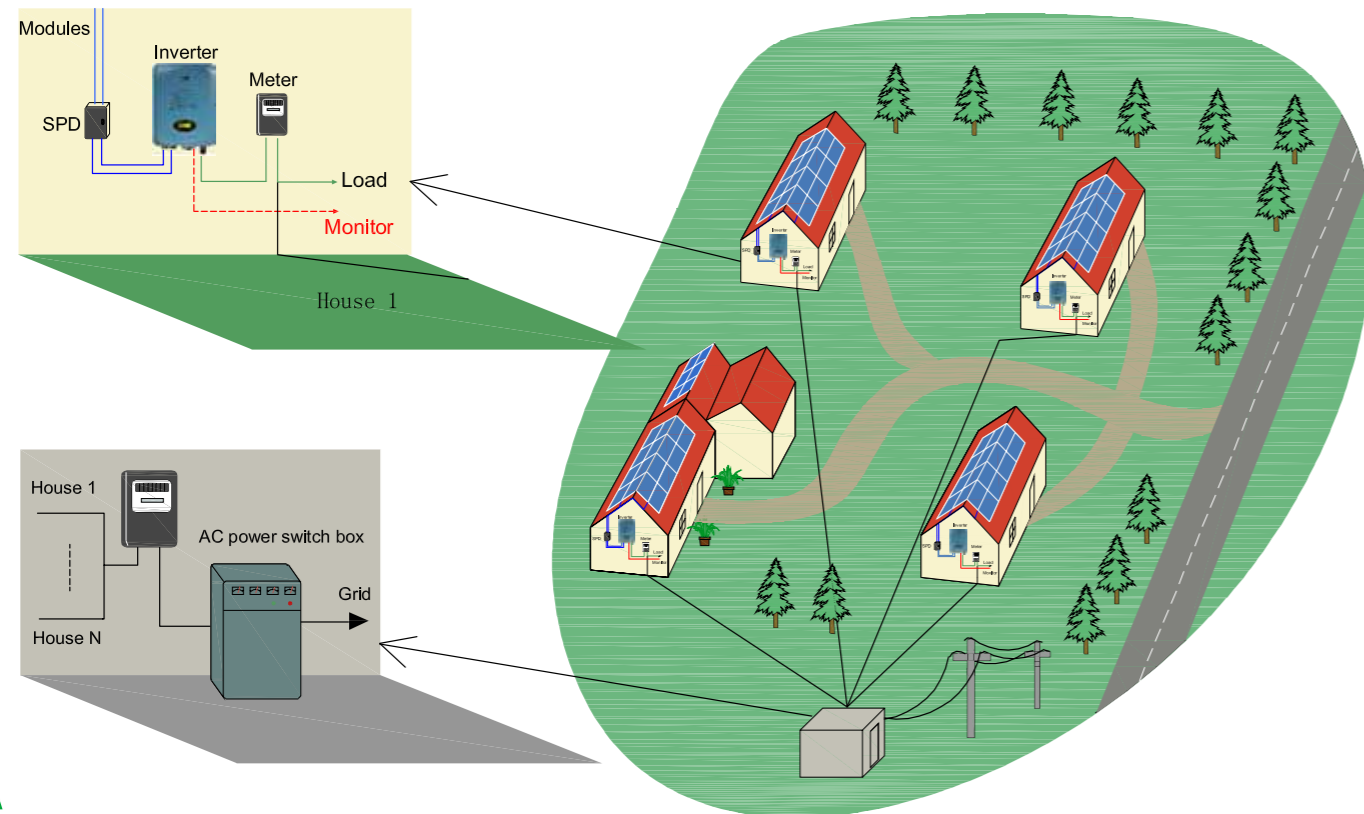
Grid-tied Solar Power System Solution for Residential Rooftop

The solution is applicable to grid-tied solar power systems on residential rooftop and adopting iMars B series single-phase grid-tied solar inverters.



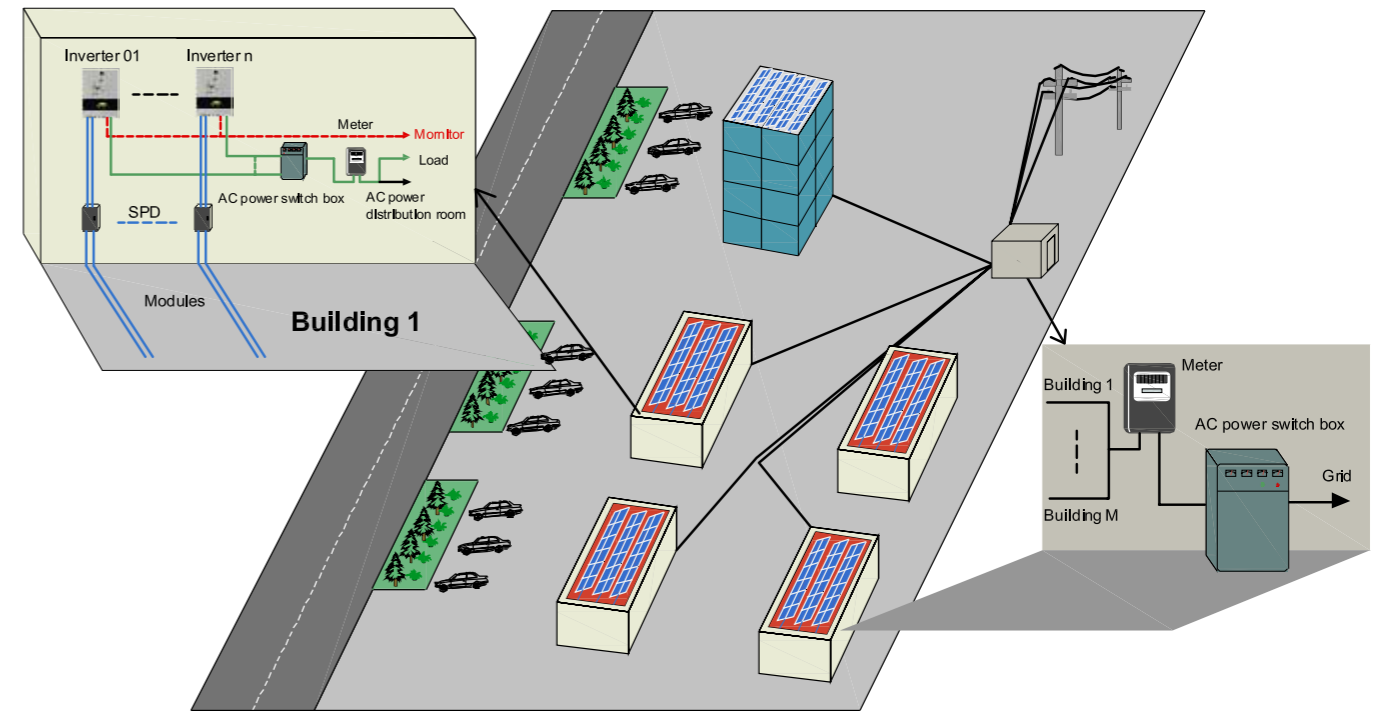
Distributed Grid-tied Solar Power System Solution for Rural Dwellings

The solution is applicable to distributed grid-tied solar power system in rural dwellings, adopting iMars B series single-phase grid-tied solar inverters.



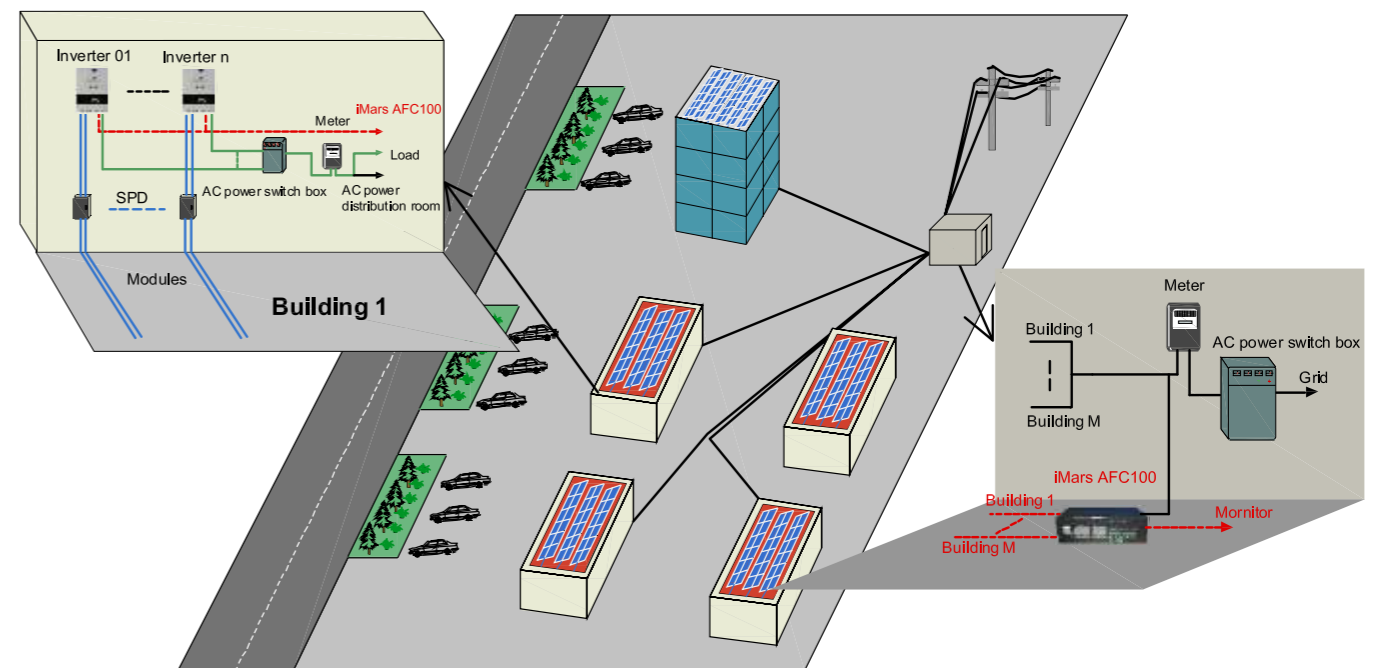
Distributed Grid-tied Solar Power System Solution for City Factory and Office Premises

The solution is applicable to distributed grid-tied solar power system in city factory and office premises and adopting iMars B series three-phase grid-tied solar inverters.

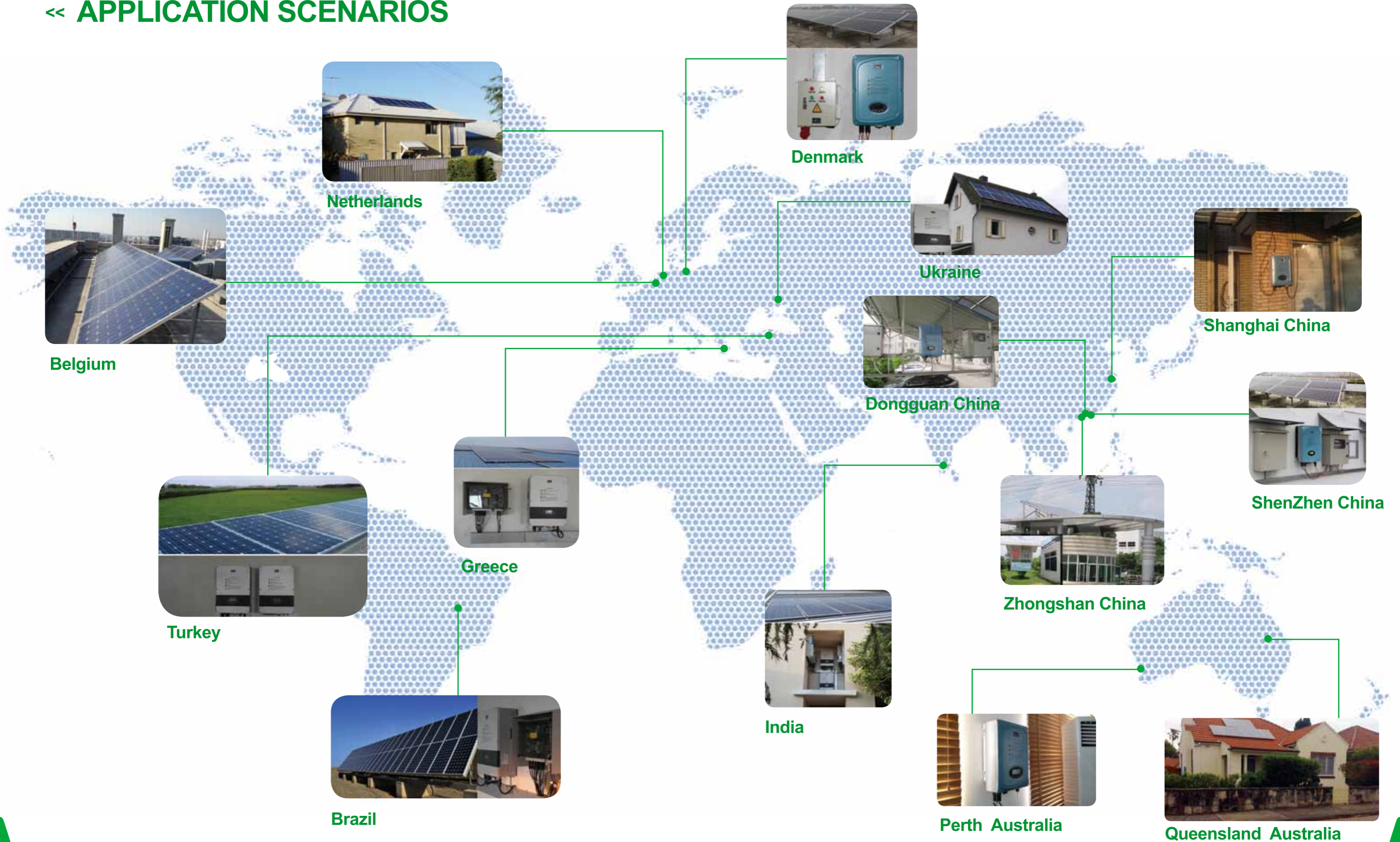


Anti-Feedback Solar Power System

The solution provides a solar power system which the generated power is only for self-consumption other than feeding back to grid through power control after installing an anti-feedback controller independently-developed by INVT.



<< APPLICATION SCENARIOS



**INVT
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GREEN LIFE WITH SOLAR**

