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SOLAR

ON-GRID
INVERTER CATALOGUE

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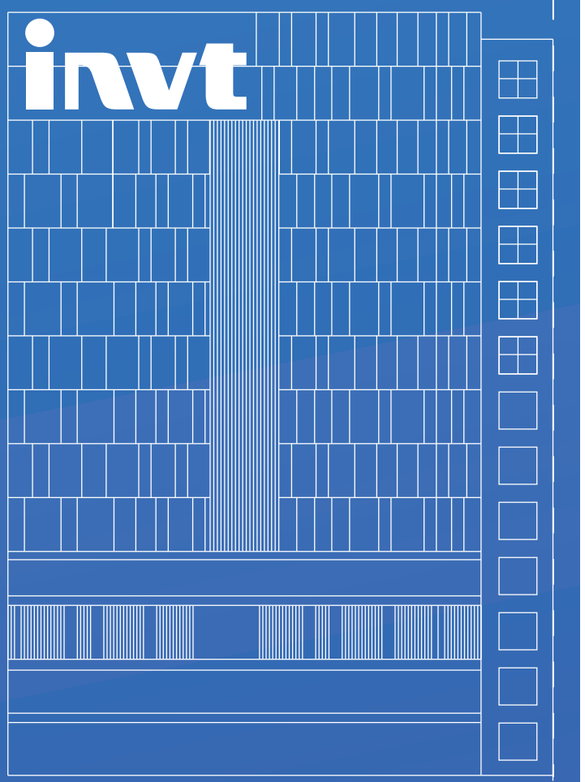

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Company Introduction

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COMPANY PROFILE

ABOUT US

INVT was established in 2002 and is the first A-share listed company (Stock code: SZ 002334) in Shenzhen Stock Exchange in the industry. Business covering industry automation, electric vehicle, network power, and PV&ESS Solutions. INVT owns 4 large-scale production and research bases, 15 subsidiaries, and more than 5000 employees.

INVT Solar, business started in 2011, is a wholly-owned subsidiary of INVT, main offering safer, more efficient, and more proficient all-scenario solar and energy storage products and solutions to residential and C&I customers. Core products, including 1-150kW on-grid inverters, 3-60kW hybrid inverters, batteries, and energy management systems successively accredited by authorities like CQC, TÜV, ITS, etc., have been applied in over 100 countries and regions. Extensively recognized, our products and brand have obtained over 300 certificates and awards.

Carbon neutrality trending, INVT Solar commits to providing trustworthy solar and energy storage solutions and contributing specialty supports to global energy transition.

CORE INDUSTRY BASE

Shenzhen Guangming Scientific Industrial Park

The headquarter and incubator of new products and business R&D.

Shenzhen Fuyong Industrial Park

Core industry base and manufacturing center in South China.

Suzhou Industrial Park

Core industry base and R&D center in East China.

INVT HONOR


2021年·中国好光伏
分布式逆变器
十大供应商
invt 英威腾
深圳市英威腾光伏
科技有限公司
国际能源网
国能能源研究院
PVBL
PVBL全球光伏品牌排行榜
GLOBAL RESEARCH TOP BRAND PV
深圳市英威腾光伏科技有限公司
获评
PVBL2022全球最具成长力光伏品牌奖
CERTIFICATE
PVBL Top 100 Solar PV Brands in the World
全球光伏品牌100强价值证书
荣获2022分布式光伏
最具品牌影响力企业
荣获2022光伏行业
最具创新逆变器企业
二零二二年十一月二十一日
中国屋顶能源品牌
荣获
2022 中国屋顶光储逆变器
影响力品牌
英威腾光伏科技有限公司
供应商证书

INVT

HISTORY

Startup period

2002
· INVT Founded
· 1 st gen. of VFDs launched

2005
· Vector VFDs launched

Rapid growth period

2006
· Annual sales revenue over 20M USD
· Successfully Share Reformed
· Started to explore overseas markets

2009
· Awarded as National High-tech Enterprise

Startup period

2010
· Listed in Shenzhen exchange stock (002334)

2011
· Started to expansion business scale

2014
· Suzhou Industrial Park Phase Ⅰ put into operation
· Stepped into EV business

2015
· Groundbreaking for Guangming Scientific Industrial Park

"Guangming" crossover period

2017
· Won transportation system project of Shenzhen Metro

2018
· Guangming headquarter put into operation

2019
· Awarded as Guangdong Engineering Research Centers
· Awarded as Guangdong Industrial Design Center

2020
· Suzhou Industrial Park Phase Ⅱ started building
· INVT Network Power Founded

Period of strategic change

2021
· Full launch of the company's business optimisation, organisational optimisation and management optimisation
· Merger of Electric Drive Company and Charging Pile Company; establishment of Zhongshan Sheet Metal Factory
· Annual revenue exceeded 434M USD

2022
· 20th anniversary, upgrading the company's corporate culture and launching strategic changes
· Annual revenue exceeded 593M USD

New Strategy/New Culture/New Journey

2023
· Continuing to promote management change and build the platform and capabilities of the company's headquarters
· Suzhou Science and Technology Industrial Park Phase II officially opened

2024
· Suzhou Science and Technology Industrial Park Phase III Plan Launched and construction of Zhongshan Industrial Park started

On-Grid Products

XG1-5KTL-S

Single Phase On-Grid Solar Inverter

Efficient Higher Revenue

- 150% DC Input Oversizing
- Wide MPPT voltage range: 50V-550V
- Max. input current per string: 20A, Compatible with high power modules

Intelligent Simple O&M

- Smart I-V Curve Diagnosis Function: locate PV string faults accurately and automatically detect faults
- Intelligent Fault Detection: AC side voltage and current waveforms real-time recorded, fast fault location
- Support RS485/WiFi/4G: remote monitoring and operation via PC or mobile phones

Reliable Worry Free

- IP66 Protection Degree: support outdoor installation
- AFCI Function (Optional): when an arc-fault is detected the inverter immediately stops operation

	XG1KTL-S	XG1.5KTL-S	XG2KTL-S	XG2.5KTL-S	XG3KTL-S	XG3.68KTL-S	XG4KTL-S	XG4.2KTL-S	XG4.6KTL-S	XG5KTL-S
Input (DC)										
Max. Input Power	1.5kW	2.25kW	3kW	3.75kW	4.5kW	5.52kW	6kW	6.3kW	6.9kW	7.5kW
Max. Input Voltage	600V									
Start Voltage	80V									
Rated Input Voltage	360V									
MPPT Voltage Range	50V ~ 550V									
Number of MPP Trackers / String per MPPT	1 / 1									
Max. Current per MPPT	20A									
Max. Short Circuit Current per MPPT	26A									
Output (AC)										
Max. Output Current	5A	7.5A	10A	12.5A	15A	16A	20A	21A	22.7A[d]	22.7A[d]
Rated Output Power	1kW	1.5kW	2kW	2.5kW	3kW	3.68kW	4kW	4.2kW	4.6kW	5kW[a]
Max. Output Power	1.1kVA	1.65kVA	2.2kVA	2.75kVA	3.3kVA	3.68kVA	4.4kVA	4.62kVA	5kVA[b]	5kVA[c]
Rated Grid Frequency	50Hz / 60Hz									
Rated Grid Voltage	220Vac / 230Vac / 240Vac									
Power Factor	>0.99 (0.8 leading ~ 0.8 lagging)									
THDi	<3% (Rated Power)									
Efficiency										
Max. Efficiency	97.30%				97.60%		97.80%			
European Efficiency	97.00%				97.20%		97.30%			
MPPT Efficiency	99.90%									
Protection										
DC switch	Optional									
DC Reverse Polarity Protection	Yes									
Anti-islanding Protection	Yes									
AC Short Circuit Protection	Yes									
Residual Current Monitoring Unit	Yes									
Insulation Resistance Monitoring	Yes									
Ground Fault Monitoring	Yes									
Grid Monitoring	Yes									
PV String Monitoring	Yes									
Surge Protection	Yes									
AFCI Protection	Optional									
Communication										
Display	LCD / LED+APP									
Communication	RS485 / WiFi / 4G									
Standard Compliance										
Certification	IEC/EN 62109-1/2, IEC/EN 61000-6-1/3, EN50549, IEC61727/IEC62116									
General Data										
Dimensions (W x H x D)	270 x 250 x 130 mm						270 x 250 x 145 mm			
Weight	6kg									
Operating Temperature Range	-30° C ~ +60° C									
Cooling Method	Natural									
Protection Degree	IP66									
Max. Operating Altitude	4000m									
Relative Humidity	0 ~ 100%									
Topology	Transformerless									
Night Power Consumption	<1W									

- a: For AS4777, Rated Output Power of XG5KTL-S is 4999W.
- b: For VDE-AR-N 4105, Max. Output Power of XG4.6KTL-S is 4600VA. For AS4777, Max.Output Power of XG4.6KTL-S is 4999VA.
- c: For AS4777, Max. Output Power of XG5KTL-S is 4999VA.
- d: For AS4777, Max. Output Current of XG4.6KTL-S and XG5KTL-S is 21.7A.

XG3-10KTL

Single Phase On-Grid Solar Inverter

Efficient Higher Revenue

- 2 MPP Trackers , Max. input current per string: 20A
- 150% DC Input Oversizing
- Compatible with high power modules

Intelligent Simple O&M

- Smart I-V Curve Diagnosis Function: locate PV string faults accurately and automaticallydetect faults
- Intelligent Fault Detection: AC side voltage and current waveforms real-time recorded, fast fault location
- Support RS485/WiFi/4G: remote monitoring and operation via PC or mobile phones

Reliable Worry Free

- IP66 Protection Degree: support outdoor installation
- AFCI Function (Optional): when an arc-fault is detected the inverter immediately stops operation

	XG3KTL-2M	XG3.68KTL	XG4KTL	XG4.2KTL	XG4.6KTL	XG5KTL	XG6KTL	XG7KTL	XG8KTL	XG10KTL	XG7KTL1	XG8KTL1	XG10KTL1
Input (DC)													
Max. Input Power	4.5kW	5.52kW	6kW	6.3kW	6.9kW	7.5kW	9kW	10.5kW	12kW	15kW	10.5kW	12kW	15kW
Max. Input Voltage	600V												
Start Voltage	80V												
Rated Input Voltage	360V												
MPPT Voltage Range	50V ~ 550V												
Number of MPP Trackers	2												
Number of String per MPPT	1 / 1										1 / 2		
Max. Current per MPPT	20A										14A / 28A		
Max. Short Circuit Current per MPPT	26A										18.2A / 36.4A		
Output (AC)													
Max. Output Current	15A	16A	20A	21A	23A [d]	25A [d]	30A	35A	40A	45.5A	35A	40A	45.5A
Rated Output Power	3kW	3.68kW	4kW	4.2kW	4.6kW	5kW [a]	6kW	7kW	8kW	10kW	7kW	8kW	10kW
Max. Output Power	3.3kVA	3.68kVA	4.4kVA	4.62kVA	5kVA [b]	5.5kVA [c]	6.6kVA	7.7kVA	8.8kVA	10kVA	7.7kVA	8.8kVA	10kVA
Rated Grid Frequency	50Hz / 60Hz												
Rated Grid Voltage	220Vac / 230Vac / 240Vac												
Power Factor	>0.99 (0.8 leading ~ 0.8 lagging)												
THDi	<3% (Rated Power)												
Efficiency													
Max. Efficiency	98.10%				98.30%			98.10%					
European Efficiency	97.30%				97.40%			97.30%					
MPPT Efficiency	99.90%												
Protection													
DC switch	Optional												
DC Reverse Polarity Protection	Yes												
Anti-islanding Protection	Yes												
AC short Circuit Protection	Yes												
Residual Current Monitoring Unit	Yes												
Insulation Resistance Monitoring	Yes												
Ground Fault Monitoring	Yes												
Grid Monitoring	Yes												
PV String Monitoring	Yes												
Surge Protection	Yes												
AFCI Protection	Optional												
Communication													
Display	LCD / LED+APP												
Communication	RS485 / WiFi / 4G												
Standard Compliance													
Certification	IEC/EN 62109-1/2, IEC/EN 61000-6-1/3, EN50549, IEC61727/IEC62116, CEI0-21, C10/C11, G98/G99, RD244，UNE217001, UNE217002, TOR Erzeuger, AS4777, ABNT, NB/T 32004												
General Data													
Dimensions (W x H x D)	380 x 380 x 160mm												
Weight	13kg												
Operating Temperature Range	-30° C ~ +60° C												
Cooling Method	Natural									Smart Cooling			
Protection Degree	IP66												
Max. Operating Altitude	4000m												
Relative Humidity	0 ~ 100%												
Topology	Transformerless												
Night Power Consumption	<1W												

- a：For AS4777, Rated Output Power of XG5KTL is 4999W .
- b：For VDE-AR-N 4105 , Max . Output Power of XG4K6TL is 4600VA . For AS4777, Max . Output Power of XG4K6TL is 4999VA .
- c：For AS4777, Max. Output Power of XG5KTL is 4999VA .
- d：For AS4777, Max . Output Current of XG4K6TL and XG5KTL is 21.7A .

XG3-15KTR-S

Three Phase On-Grid Solar Inverter

Efficient Higher Revenue

- 2MPP Trackers, high single circuit tracking accuracy, fast dynamic response
- 160% DC Input Oversizing
- Wide MPPT voltage range: 180V-1000V
- Compatible with high power modules

Intelligent Simple O&M

- Smart I-V Curve Diagnosis Function: locate PV string faults accurately and automatically detect faults
- Intelligent Fault Detection: AC side voltage and current waveforms real-time recorded, fast fault location
- Support RS485 (WiFi/GPRS/Ethernet optional): remote monitoring and operation via PC or mobile phones

Reliable Worry Free

- IP66 Protection degree: support outdoor installation
- DC & AC Type II SPD: prevent lightning damage
- AFCI Function (Optional): when an arc-fault is detected the inverter immediately stops operation

	XG3KTR-S	XG4KTR-S	XG5KTR-S	XG6KTR-S	XG8KTR-S	XG9KTR-S	XG10KTR-S	XG11KTR-S	XG12KTR-S	XG15KTR1-S
Input (DC)										
Max. Input Power	4.8kW	6.4kW	8kW	9.6kW	12.8kW	14.4kW	16kW	17.6kW	19.2kW	24kW
Max. Input Voltage	1100V									
Start Voltage	200V									
Rated Input Voltage	600V									
MPPT Voltage Range	180V ~ 1000V									
Number of MPP Trackers / String per MPPT	2 / 1									
Max. Current per MPPT	18A									
Max. Short Circuit Current per MPPT	25A									
Output (AC)										
Max. Output Current	4.8A	6.4A	8A	9.6A	12.8A	14.4A	15.9A	17.5A	19.1A	23.9A
Rated Output Power	3kW	4kW	5kW	6kW	8kW	9kW	10kW	11kW	12kW	15kW
Max. Output Power	3.3kVA	4.4kVA	5.5kVA	6.6kVA	8.8kVA	9.9kVA	11kVA	12.1kVA	13.2kVA	16.5kVA
Rated Grid Frequency	50Hz / 60Hz									
Rated Grid Voltage	230Vac / 400Vac, 3L / N / PE									
Power Factor	>0.99 (0.8 leading ~ 0.8 lagging)									
THDi	<3% (Rated Power)									
Efficiency										
Max. Efficiency	98.40%				98.70%					
European Efficiency	98.30%				98.50%					
MPPT Efficiency	99.90%									
Protection										
DC Reverse Polarity Protection	Yes									
Anti-islanding Protection	Yes									
AC short Circuit Protection	Yes									
Residual Current Monitoring Unit	Yes									
Insulation Resistance Monitoring	Yes									
Ground Fault Monitoring	Yes									
Grid Monitoring	Yes									
Surge Protection	Type II									
AFCI Protection	Optional									
Communication										
Display	LCD / LED+APP									
Communication	Standard：RS485 Optional：WiFi / GPRS / Ethernet									
Standard Compliance										
Certification	IEC/EN 62109-1/2, IEC/EN 61000-6-1/3, IEC61683, IEC60068, IEC61727/IEC62116, EN50549, CEI0-21, C10/C11，VDE 4105, VDE 0124, G98/G99, RD244, UNE217001, UNE217002, NC RfG, TOR Erzeuger, AS4777, ABNT, NB/T 32004, BIS									
General Data										
Dimensions (W x H x D)	481 x 390 x 190mm									
Weight	12kg				13.5kg					
Operating Temperature Range	-30° C ~ +60° C									
Cooling Method	Natural									Smart Cooling
Protection Degree	IP66									
Max. Operating Altitude	4000m									
Relative Humidity	0 ~ 100%									
Topology	Transformerless									
Night Power Consumption	<1W									

XG17-25KTR

Three Phase On-Grid Solar Inverter

Efficient Higher Revenue

- 2 MPP Trackers, high single circuit tracking accuracy, fast dynamic response
- 160% DC Input Oversizing
- Maximum efficiency 98.4%. Wide MPPT voltage range: 200V-1000V
- Compatible with high power modules.

Intelligent Simple O&M

- Smart I-V Curve Diagnosis Function: locate PV string faults accurately and automatically detect faults
- Intelligent Fault Detection: AC side voltage and current waveforms real-time recorded, fast fault location
- Support RS485 (WiFi/GPRS/Ethernet optional): remote monitoring and operation via PC or mobile phones

Reliable Worry Free

- IP66 Protection degree: support outdoor installation
- DC & AC Type II SPD: prevent lightning damage
- AFCI Function (Optional): when an arc-fault is detected the inverter immediately stops operation

	XG17KTR	XG20KTR	XG22KTR	XG25KTR
Input (DC)				
Max. Input Power	27.2kW	32kW	35.2kW	40kW
Max. Input Voltage	1100V			
Start Voltage	250V			
Rated Input Voltage	600V			
Full-load MPP Voltage Range	480V ~ 800V		520V ~ 800V	560V ~ 800V
MPPT Voltage Range	200V ~ 1000V			
Number of MPP Trackers	2			
Number of string per MPPT	2 / 2			2 / 3
Max. Current per MPPT	32A			32A / 48A
Max. Short Circuit Current per MPPT	40A			40A / 60A
Output (AC)				
Max. Output Current	27.2A	32.1A	35.3A	39.8A
Rated Output Power	17kW	20kW	22kW	25kW
Max. Output Power	18.8kVA	22.2kVA	24.4kVA	27.5kVA
Rated Grid Frequency	50Hz / 60Hz			
Rated Grid Voltage	230Vac / 400Vac, 3L / N / PE			
Power Factor	>0.99 (0.8 leading ~ 0.8 lagging)			
THDi	<3% (Rated Power)			
Efficiency				
Max. Efficiency	98.40%			
European Efficiency	98.00%			
MPPT Efficiency	99.90%			
Protection				
DC Reverse Polarity Protection	Yes			
Anti-islanding Protection	Yes			
AC Short Crcuit Protection	Yes			
Residual Current Monitoring Unit	Yes			
Insulation Resistance Monitoring	Yes			
Ground Fault Monitoring	Yes			
Grid Monitoring	Yes			
PV String Monitoring	Yes			
Surge Protection	Type II			
AFCI Protection	Optional			
Communication				
Display	LCD / LED+APP			
Communication	Standard：RS485 Optional：WiFi / GPRS / Ethernet			
Standard Compliance				
Certification	IEC/EN 62109-1/2, IEC/EN 61000-6-1/3, IEC60068, IEC61683, EN 50549, IEC61727/IEC62116, CEI 0-21, C10/C11, VDE 4105, VDE 0124, RD244, UNE217001, UNE217002, NC RfG, AS4777, NB/T 32004, BIS			
General Data				
Dimensions (W x H x D)	534 x 440 x 220mm			
Weight	24kg			
Operating Temperature Range	-30° C ~ +60° C			
Cooling Method	Smart Cooling			
Protection Degree	IP66			
Max. Operating Altitude	4000m			
Relative Humidity	0 ~ 100%			
Topology	Transformerless			
Night Power Consumption	< 1W			

XG30-40KTR

Three Phase On-Grid Solar Inverter

Efficient Higher Revenue

- 3-4 MPP Trackers, high single circuit tracking accuracy, fast dynamic response
- 160% DC Input Oversizing
- Maximum efficiency of 98.6%. Wide MPPT voltage range: 200V-1000V
- Compatible with high power modules

Intelligent Simple O&M

- Smart I-V Curve Diagnosis Function: locate PV string faults accurately and automatically detect faults
- Intelligent Fault Detection: AC side voltage and current waveforms real-time recorded, fast fault location
- Support RS485 (WiFi/GPRS/Ethernet optional): remote monitoring and operation via PC or mobile phones

Reliable Worry Free

- IP66 Protection degree: support outdoor installation
- DC & AC Type II SPD: prevent lightning damage
- AFCI Function (Optional): when an arc-fault is detected the inverter immediately stops

	XG30KTR	XG33KTR	XG36KTR	XG40KTR
Input (DC)				
Max. Input Power	48kW	52.8kW	57.6kW	64kW
Max. Input Voltage	1100V			
Start Voltage	250V			
Rated Input Voltage	600V			
Full-load MPP Voltage Range	500V ~ 800V			
MPPT Voltage Range	200V ~ 1000V			
Number of MPP Trackers	3		4	
String per MPPT	2			
Max. Current per MPPT	26A			
Max. Short Circuit Current per MPPT	32A			
Output (AC)				
Max. Output Current	48.3A	53A	57.8 A	64.3 A
Rated Output Power	30kW	33kW	36 kW	40 kW
Max. Output Power	33.3kVA	36.6 kVA	39.6 kVA	44 kVA
Rated Grid Frequency	50 Hz / 60 Hz			
Rated Grid Voltage	230Vac / 400Vac, 3L / N / PE			
Power Factor	>0.99(0.8 leading ~ 0.8 lagging)			
THDi	<3% (Rated Power)			
Efficiency				
Max. Efficiency	98.60%			
European Efficiency	98.50%			
MPPT Efficiency	99.90%			
Protection				
DC Reverse Polarity Protection	Yes			
Anti-islanding Protection	Yes			
AC Short Circuit Protection	Yes			
Residual Current Monitoring Unit	Yes			
Insulation Resistance Monitoring	Yes			
Ground Fault Monitoring	Yes			
Grid Monitoring	Yes			
PV String Monitoring	Yes			
Surge Protection	Type II			
AFCI Protection	Optional			
Communication				
Display	LCD / LED+APP			
Communication	Standard：RS485 Optional：WiFi / GPRS / Ethernet			
Standard Compliance				
Certification	IEC/EN 62109-1/2, IEC/EN 61000-6-1/3, EN50549, IEC61727/IEC62116, CEI 0-21,C10/C11, VDE 4105, VDE 0124, RD244, UNE217001, UNE217002, NC RfG, TOR Erzeuger, AS4777, NRS097-2-1, NB/T 32004, BIS			
General Data				
Dimensions (W x H x D)	600 x 430 x 230 mm			
Weight	30kg		32kg	
Operating Temperature Range	-30° C ~ +60° C			
Cooling Method	Smart Cooling			
Protection Degree	IP66			
Max. Operating Altitude	4000m			
Relative Humidity	0 ~ 100%			
Topology	Transformerless			
Night Power Consumption	< 1W			

XG50-70KTR

Three Phase On-Grid Solar Inverter

Efficient Higher Revenue

- 4 MPP Trackers, high single circuit tracking accuracy, fast dynamic response and higher power generation
- 160% DC Input Oversizing
- Wide MPPT voltage range: 200V-1000V
- Compatible with high power modules

Intelligent Simple O&M

- Smart I-V Curve Diagnosis Function: locate PV string faults accurately and automatically detect faults
- Intelligent Fault Detection: AC side voltage and current waveforms real-time recorded, fast fault location
- Support RS485 (WiFi/GPRS/Ethernet optional): remote monitoring and operation via PC or mobile phones

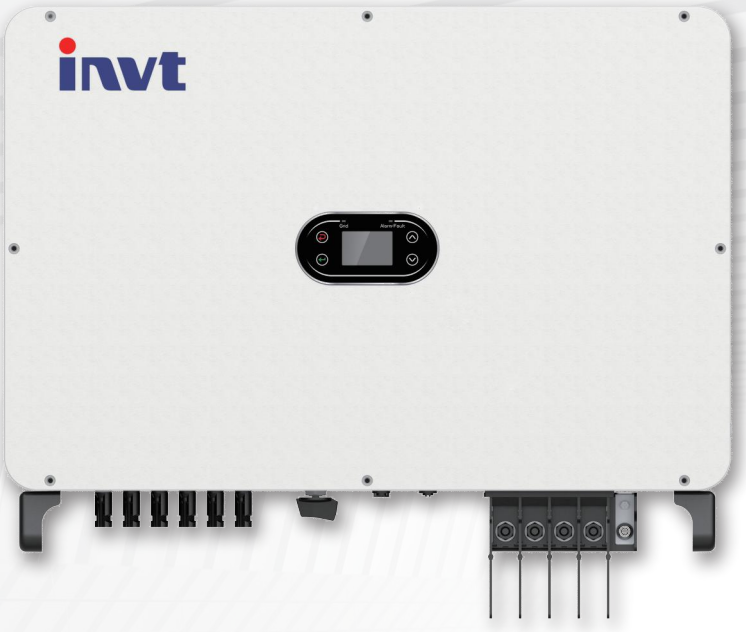
Reliable Worry Free

- IP66 Protection degree: support outdoor installation
- DC & AC Type II SPD: prevent lightning damage
- AFCI Function (Optional): when an arc-fault is detected the inverter immediately stops operation

	XG50KTR	XG50KTRL	XG60KTR	XG60KTRL	XG66KTRL	XG70KTRL
Input (DC)						
Max. Input Power	80kW		96kW		105.6kW	112kW
Max. Input Voltage	1100V					
Start Voltage	250V					
Rated Input Voltage	600V				700V	
Full-load MPP Voltage Range	520V ~ 850V				600V ~ 850V	
MPPT Voltage Range	200V ~ 1000V					
Number of MPP Trackers	4					
Number of string per MPPT	3 / 2 / 3 / 2		3 / 3 / 3 / 3			
Max. Current per MPPT	39A / 26A / 39A / 26A		39A			
Max. Short Circuit Current per MPPT	48A / 32A / 48A / 32A		48A			
Output (AC)						
Max. Output Current	79.7A	66.2A	95.6A	79.4A	87.4A	92.6A
Rated Output Power	50kW		60kW		66kW	70kW
Max. Output Power	55kVA		66kVA		72.6kVA	77kVA
Rated Grid Frequency	50Hz / 60Hz					
Rated Grid Voltage	230Vac / 400Vac	277Vac / 480Vac	230Vac / 400Vac	277Vac / 480Vac		
Power Factor	>0.99 (0.8 leading ~ 0.8 lagging)					
THDi	<3% (Rated Power)					
Efficiency						
Max. Efficiency	98.70%		98.80%			
European Efficiency	98.40%				98.50%	
MPPT Efficiency	99.90%					
Protection						
DC Reverse Polarity Protection	Yes					
Anti-islanding Protection	Yes					
AC Short Circuit Protection	Yes					
Residual Current Monitoring Unit	Yes					
Insulation Resistance Monitoring	Yes					
Ground Fault Monitoring	Yes					
Grid Monitoring	Yes					
PV String Monitoring	Yes					
Surge Protection	Type II					
AFCI Protection	Optional					
Communication						
Display	LCD / LED+APP					
Communication	Standard：RS485 Optional：WiFi / GPRS / Ethernet					
Standard Compliance						
Certification	IEC/EN 62109-1/2, IEC/EN 61000-6-1/3, EN50549, IEC61727/IEC62116, CEI 0-21,CEI 0-16, C10/C11, VDE 4105, VDE 0124, G99, RD244, UNE217001, UNE217002, NC RfG, NRS097-2-1, NB/T 32004, BIS					
General Data						
Dimensions (W x H x D)	650 x 450 x 260 mm					
Weight	50kg					
Operating Temperature Range	-30° C ~ +60° C					
Cooling Method	Smart Cooling					
Protection Degree	IP66					
Max. Operating Altitude	4000m					
Relative Humidity	0 ~ 100%					
Topology	Transformerless					
Night Power Consumption	<1W					

XG75-80KTR-PRO

Three Phase On-Grid Solar Inverter



Efficient Higher Revenue

- 6 MPP Trackers, high single circuit tracking accuracy, fast dynamic response and higher power generation
- 150% DC Input Oversizing
- Wide MPPT voltage range: 180-1000V
- String Current 20A, Compatible with high power modules

Intelligent Simple O&M

- Smart I-V Curve Diagnosis Function: locate PV string faults accurately and automatically detect faults
- Intelligent Fault Detection: AC side voltage and current waveforms real-time recorded, fast fault location
- Support RS485 (WiFi/GPRS/Ethernet optional): remote monitoring and operation via PC or mobile phones

Reliable Worry Free

- IP66 Protection degree: support outdoor installation
- DC & AC Type II SPD: prevent lightning damage
- AFCI Function (Optional): when an arc-fault is detected the inverter immediately stops operation

	XG75KTR-PRO	XG80KTR-PRO
Input (DC)		
Max. Input Power	112500W	120000W
Max. Input Voltage	1100V	
Start Voltage	200V	
Rated Input Voltage	620V	
MPPT Voltage Range	180-1000V	
Number of MPPT Trackers	6	
Number of string per MPPT	2	
Max. Current per MPPT	40A	
Max. Short Circuit Current per MPPT	50A	
Output (AC)		
Max. Output Current	113.7A	133.4A
Rated Output Power	75kW	80kW
Max. Output Power	75kVA	88kVA
Rated Grid Frequency	50Hz / 60Hz	
Rated Grid Voltage	230Vac/400Vac，3L / N / PE	
Power Factor	>0.99 (0.8 leading ~ 0.8 lagging)	
THDi	<3% (Rated Power)	
Efficiency		
Max. Efficiency	98.60%	
European Efficiency	98.00%	
MPPT Efficiency	99.90%	
Protection		
DC Reverse Polarity Protection	Yes	
Anti-islanding Protection	Yes	
AC Short Circuit Protection	Yes	
Residual Current Monitoring Unit	Yes	
Insulation Resistance Monitoring	Yes	
Ground Fault Monitoring	Yes	
Grid Monitoring	Yes	
PV String Monitoring	Yes	
Surge Protection	Type II	
AFCI Protection	Optional	
Communication		
Display	LCD/LED+APP	
Communication	Standard：RS485 Optional：WiFi / GPRS / Ethernet	
Standard Compliance		
Certification	IEC 62109-1, IEC 62109-2, IEC 61000-6-2, IEC 61000-6-4，EN 62920， IEC 61727, IEC 62116, IEC 60068, IEC 61683	
General Data		
Dimensions (W x H x D)	780x585x333mm	
Weight	77.8Kg	
Operating Temperature Range	-30° C ~ +60° C	
Cooling Method	Smart Cooling	
Protection Degree	IP66	
Max. Operating Altitude	4000m	
Relative Humidity	0 ~ 100%	
Topology	Transformerless	
Night Power Consumption	<1W	

XG100-136KTR

Three Phase On-Grid Solar Inverter

Efficient Higher Revenue

- 9-12 MPP Trackers, high single circuit tracking accuracy, fast dynamic response and higher power generation
- 150% DC Input Oversizing
- Maximum efficiency of 98.7%. Wide MPPT voltage range: 180V-1000V
- Compatible with high power modules

Intelligent Simple O&M

- Smart I-V Curve Diagnosis Function: locate PV string faults accurately and automatically detect faults
- Intelligent Fault Detection: AC side voltage and current waveforms real-time recorded, fast fault location
- Support RS485 (WiFi/DRM/Bluetooth optional): remote monitoring and operation via PC or mobile phones

Reliable Worry Free

- IP66 Protection degree: support outdoor installation
- DC & AC Type II SPD: prevent lightning damage
- AFCI Function (Optional): when an arc-fault is detected the inverter immediately stops operation

	XG100KTR-F	XG110KTR-F	XG136KTR-LF	XG136KTR-XF
Input (DC)				
Max. Input Power	150kW		160kW	
Max. Input Voltage	1100V			
Start Voltage	250V			
Rated Input Voltage	620V		730V	780V
Full-load MPP Voltage Range	530V ~ 850V		560V ~ 850V	
MPPT Voltage Range	180V ~ 1000V			
Number of MPP Trackers	9	10	12	
Number of string per MPPT	2			
Max. Current per MPPT	30A			
Max. Short Circuit Current per MPPT	40A			
Output (AC)				
Max. Output Current	158.8A	174.6A		160.4A
Rated Output Power	100kW	110kW	136kW	
Max. Output Power	110kVA	121kVA	150kVA	
Rated Grid Frequency	50Hz / 60Hz			
Rated Grid Voltage	230Vac / 400Vac, 3L / N / PE, 3L / PE		277Vac / 480Vac , 3L / N / PE, 3L / PE	311Vac / 540Vac, 3L / N / PE, 3L / PE
Power Factor	>0.99 (0.8 leading ~ 0.8 lagging)			
THDi	<3% (Rated Power)			
Efficiency				
Max. Efficiency	98.70%			
European Efficiency	98.50%			
MPPT Efficiency	99.90%			
Protection				
DC reverse polarity protection	Yes			
Anti-islanding protection	Yes			
AC short circuit protection	Yes			
Residual current monitoring unit	Yes			
Insulation resistance monitoring	Yes			
Ground fault monitoring	Yes			
Grid monitoring	Yes			
PV string monitoring	Yes			
Surge protection	Type II			
AFCI protection	Optional			
Communication				
Display	LCD / LED+APP			
Communication	Standard：RS485 Optional：WiFi / DRM / Bluetooth / Ethernet			
Standard Compliance				
Certification	IEC/EN 62109-1/2, IEC/EN 61000-6-1/3, IEC/EN 61000-6-2/4, EN50549, IEC61727/IEC62116, CEI 0-21/CEI 0-16, C10/C11, VDE 4105, VDE 0124, G99, RD244, UNE217001, UNE217002, NC RfG, TOR Erzeuger, NRS097-2-1, NB/T 32004			
General Data				
Dimensions (W x H x D)	1050 x 660 x 330 mm			
Weight	95kg	98kg	101kg	
Operating Temperature Range	-30° C ~ +60° C			
Cooling Method	Smart forced air cooling			
Protection Degree	IP66			
Max. Operating Altitude	4000m			
Relative Humidity	0 ~ 100%			
Topology	Transformerless			
Night Power Consumption	<1W			

STICK LOGGER

WiFi / Ethernet / Energy Meter

Plug and play

No extra power supply is required.

Independent module

Protecting internal parts of inverter.

Waterproof design

Resistant to bad weather.

External design

External indicator lights,ensuring collection status at a glance, easy to replace faulty equipment.

	ICA400-06N	ICA100-06N-EU
Remote Communication Interface	4G	WIFI
Worki Frequency	Band 1/3/5/8/34/39/40/41	2.412GHz~2.484GHz
Antenna	Internal	
Data Interface	RS485	
Working Voltage	DC5~12V	
Working Power	3W	1.5W
SIM Card	MicroSIM	—
Memory	8M Flash	2M Flash
Temperature	-25~65°C	
Humidity	90%（No Condensation）	
Shell Material	PC+ABS_V0	
Number of Connections	1	
Serial Communication Rate	9600bps（1200~115200bps Configurable）	
Data Acquisition Interval	Default: 5 mins (1-15 mins Configurable)	
User Configuration	APP/Bluetooth	
Firmware Upgrade	Remote	
Access to Third-Party Platforms	Configurable（MQTT）	
Others	Real-time Monitoring, Bluetooth Debugging, Inverter Upgrade	

DIN-RAIL LOGGER

WiFi / Ethernet / Energy Meter

35mm

Standard DIN-Rail Mount

Suitable for 35mm DIN-Rail mount.

Data Resuming

Ensure data integrity.

Remote Upgrade

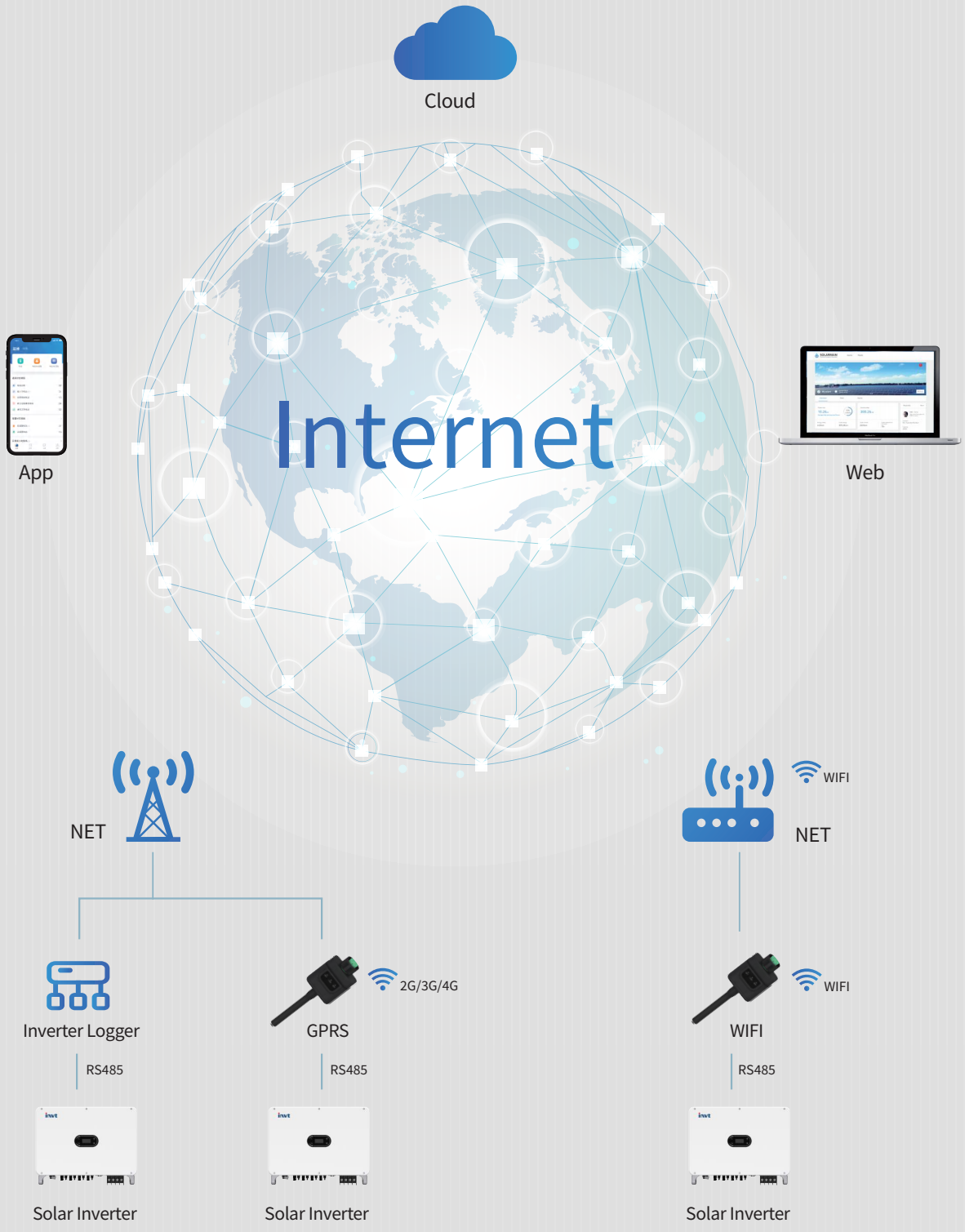
Remote upgrade and system debugging, easy for O&M.

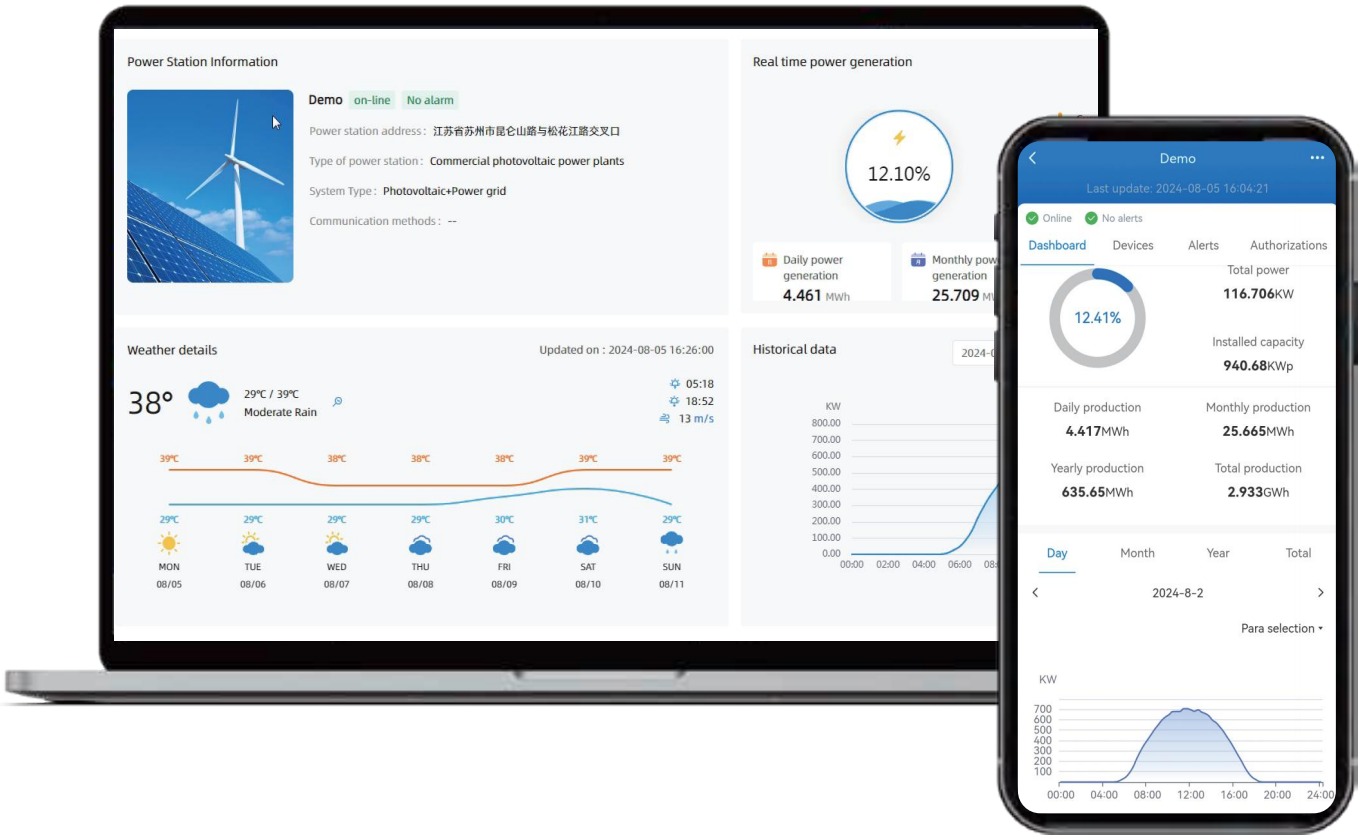
Alert Notification

Real-time alerts with timely notification,ensuring fast troubleshoot.

	LDW-1
Remote Communication Interface	WiFi
Working Frequency	2.142GHz ~ 2.484GHz
No.of Connections	1-10
Ethernet	10/100M (Adaptive Network)
Working Voltage	DC 4.7-15V
Working Power	1W
Local Communication	RS485/RS422/RS232
Serial Communication Rate	1200-115200bps Configurable
Data Uploading Interval	Default: 5 mins (1-15 mins Configurable)
Memory	2M Fash (512K-16M Optional)
User Configuration	AT+Instruction Set, Remote Server
SIM Card	-
Antenna	GPRS Small Antenna (Sucker Antenna Optional)
Working Temperature	-40°C ~ +85°C
Working Humidity	< 90% (non-condensation)
Dimension (W x H x D)	76 x 91 x18 mm
Installation Method	35mm DIN-Rail

Monitoring Solution





Monitoring Platform

Business Monitor

- Multiple ways to quickly build plant
- Real time power generation data, real-time power, real-time weather
- Big data storage solutions enable long-term preservation of data
- Customize data dimensions to quickly troubleshoot issues
- Remote control, remote upgrade, Bluetooth control, multiple device control methods

User Monitor

- A concise and clear interface, convenient for users to use
- Comprehensive display of power station data
- Real time device alarm

▲ Business APP

▲ User APP

R&D INNOVATION

INVT regards research and development innovation as vitality 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 value for customers and society through strategic implementation such as independent innovation, operational excellence management and human resource development.

22 years
Drive technology development

35%
R&D staff

1530+
Patents

10%
Sales revenue for R&D

7
Research Centers

INVT Institute for Industrial Automation and Electric Power

Shenzhen Key Enterprise Research Institute

MARKETING & SERVICE NETWORK

INVT global sales team provides customers with professional and efficient pre-sale, in sale and after-sale services, and enhances the added value of the brand with high-quality services.

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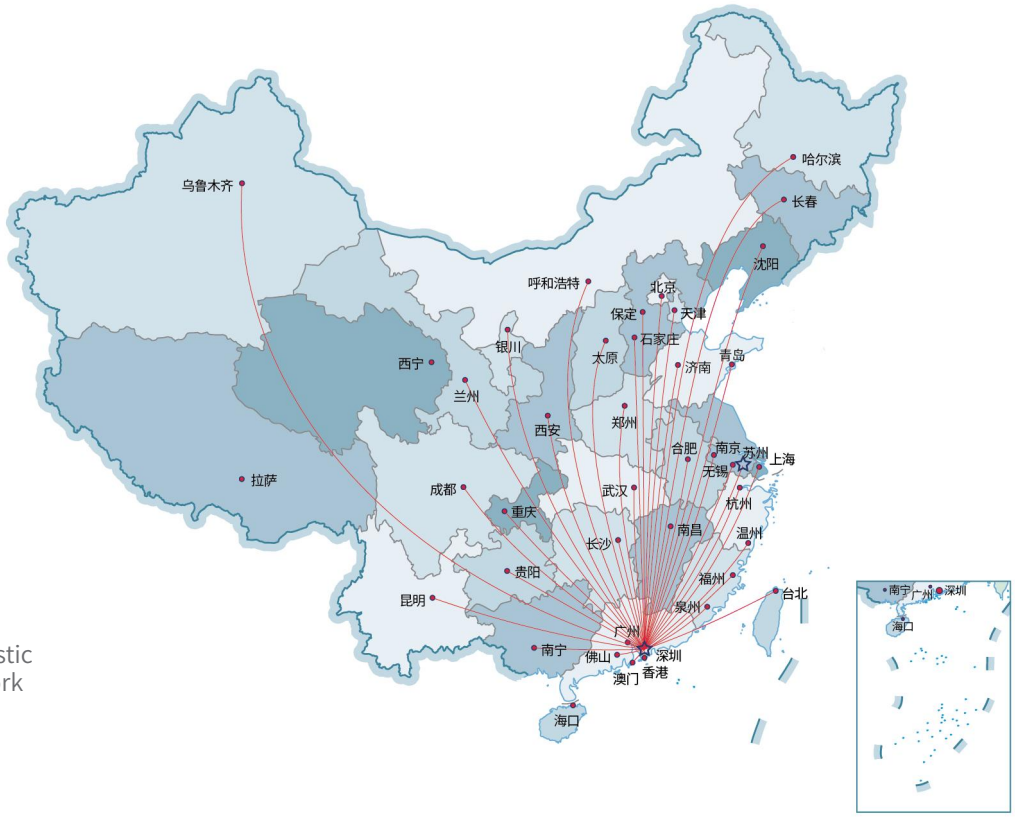

Domestic Network

Global Network

RESIDENTIAL CASE

40kW Solar System in Jiangxi, China
(XG40KTR)

16kW Solar System in Greece
(XG6KTL、XG10KTR)

25kW Solar System in Malaysia
(XG25KTR)

30kW Solar System in Israel
(XG30KTR)

25kW Solar System in Slovakia
(XG25KTR)

RESIDENTIAL CASE

8kW Solar System in Finland
(XG8KTR)

12kW Solar System in Malaysia
(XG12KTR)

10kW Solar System in Slovakia
(XG10KTR)

30kW Solar System in Serbia
(XG30KTR)

COMMERCIAL CASE

800kW Rooftop PV Plant in Shanxi, China
(XG110KTR)

125kW Rooftop PV Plant in Slovakia
(XG50KTR，XG25KTR)

2.4MW Rooftop PV Plant in Guangdong, China
(XG136KTR-X)

180kW Rooftop PV Plant in Lebanon
(XG60KTR)

5.916MW Rooftop PV Plant in Hubei, China
(XG100KTR，XG50KTR)

2MW Rooftop PV Plant in Türkiye
(XG110KTR)

COMMERCIAL CASE

13.86MW Rooftop PV Plant in Hubei, China
(XG136KTR-X)

1.2MW Rooftop PV Plant in Jiangsu, China
(XG100KTR)

5.99MW ENOVATE Motors EV Manufacturing Base PV Plant in Changsha, China
(XG110KTR，XG50KTR)

522kW Rooftop PV Plant in Zhejiang, China
(XG110KTR，XG60KTR，XG50KTR)

11.6MW Rooftop PV Plant in Hebei, China
(XG110KTR，XG60KTR)

1.1MW Rooftop PV Plant in Guangdong, China
(XG110KTR，XG30KTR)

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