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SOLAR

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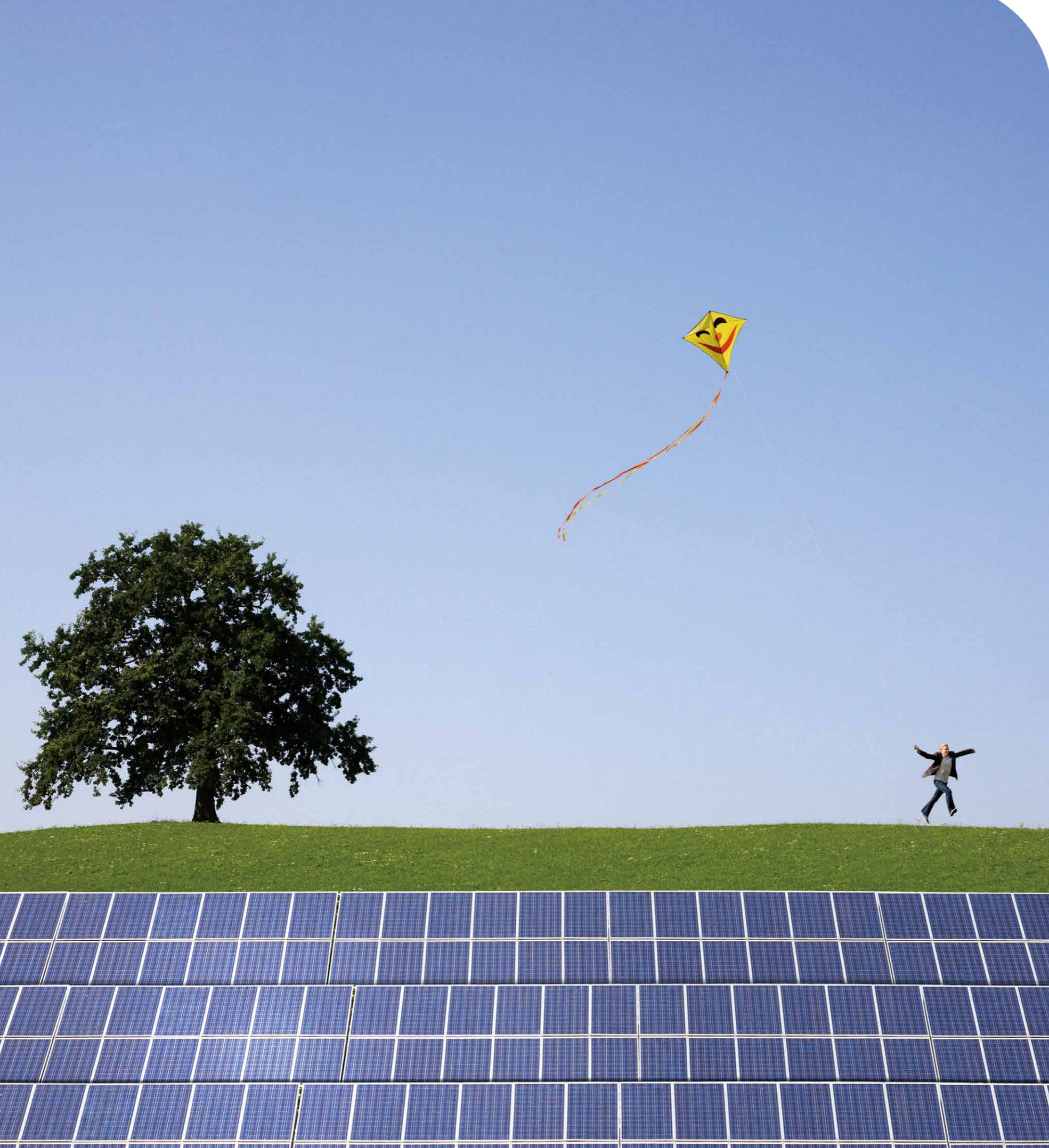
Powered by Solar

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SOLAR INVERTER  
CATALOG



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# COMPANY PROFILE

## ABOUT US

INVT (Shenzhen INVT Electric Co.,Ltd) was established in 2002, and is the first A-share listed company (Stock code: SZ 002334) in Shenzhen Stock Exchange in the industry. Our business covers industry automation, electric vehicle, network power. INVT owns 15 subsidiaries and more than 4500 employees.

INVT Solar (INVT Solar Technology (Shenzhen) Co.,Ltd.), is a professional solar inverters manufacturer and national high-tech enterprise. Founded in 2015, it is a wholly-owned subsidiary of INVT. It mainly offers PV inverter solutions and energy storage systems for commercial & industrial, and residential applications. Relying on INVT's strong 21-year of operating strength, INVT Solar has great advantages in R&D, production, sales and service, can provide all-round support to customers. Now our inverters are used in power installations in over 100 countries. In the Low-Carbon Age, INVT Solar is committed to providing smart products and services to develop clean energy.

## 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.

## 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.



10%+  
R&D Investment/  
Revenue



35%+  
R&D Staff



1400+  
Patents



21 Years  
Technical  
Accumulation



10  
R&D Centers

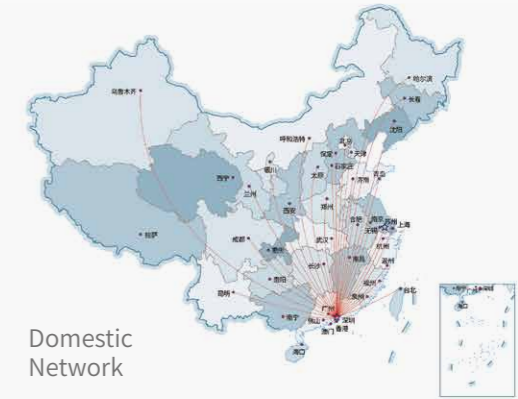
## MARKETING & SERVICE NETWORK

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.

Email: [solar@invt.com.cn](mailto:solar@invt.com.cn)



Global  
Network



Domestic  
Network

## INVT MILESTONE

- 2002
  - Founded
  - 1 st gen. of VFDs launched

- 2005
  - Vector VFDs launched

- 2006
  - Started to explore overseas Market

- 2009
  - Awarded as national Key High-tech Enterprise

- 2010
  - Listed on Shenzhen stock market(002334)
  - India subsidiary established
  - Stepped into UPS and rail transit business

- 2011
  - Annual sales over \$100 million
  - Set out to explore the business in servo, PLC and power sectors

- 2014
  - Suzhou Industrial Park Phase I came into service
  - Stepped into electric vehicle business

- 2017
  - Won transportation system project for Shenzhen metro
  - Won the "Chinese Outstanding Patented Invention" award
  - Annual sales over \$300 million

- 2018
  - Guangming headquarter came into service
  - No. 1 market share in Vietnam

- 2020
  - Won the "National Science and Technology Major Project of the Ministry of Science and Technology of China award"

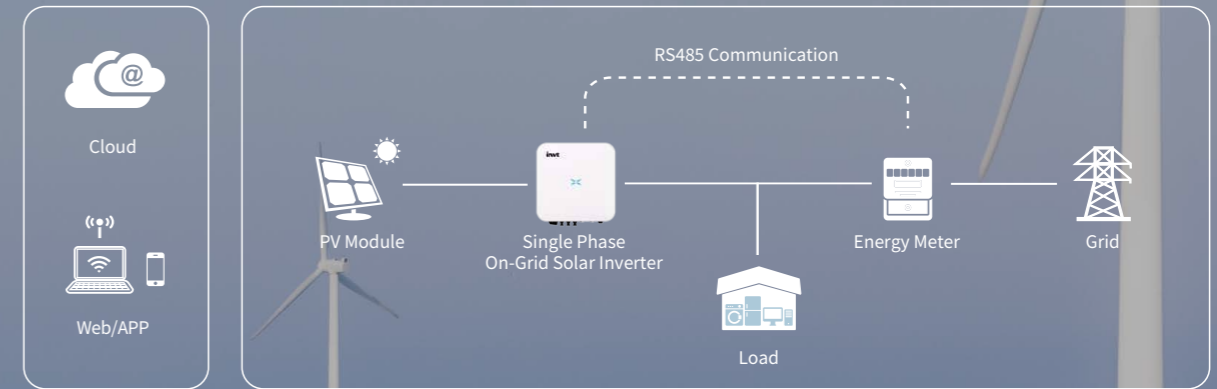
- 2022
  - Future-oriented strategic reform

- 2021
  - IABG Founded; LTC regrouped
  - EV Drive subsidiary merged with EV Charging Subsidiary



# On-Grid PV Solution

## Residential On-grid PV Solution



## Commercial On-grid PV Solution



# XG1-5kW-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
- DC & AC Type II SPD: prevent lightning damage
- 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	XG5KTL-S
<b>Input (DC)</b>									
Max. Input Power	1.5kW	2.25kW	3kW	3.75kW	4.5kW	5.52kW	6kW	6.3kW	7.5kW
Max. Input Voltage	600V								
Start Voltage	50V								
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								
<b>Output (AC)</b>									
Max. Output Current	5A	7.5A	10A	12.5A	15A	16A	20A	21A	22.7A
Rated Output Power	1kW	1.5kW	2kW	2.5kW	3kW	3.68kW	4kW	4.2kW	5kW
Max. Output Power	1.1kVA	1.65kVA	2.2kVA	2.75kVA	3.3kVA	3.68kVA	4.4kVA	4.62kVA	5kVA
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 )								
<b>Efficiency</b>									
Max. Efficiency	97.30%			97.60%			97.80%		
European Efficiency	97.00%			97.20%			97.30%		
MPPT Efficiency	99.90%								
<b>Protection</b>									
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								
<b>Communication</b>									
Display	LCD / LED+APP								
Communication	RS485 / WiFi / 4G								
<b>Standard Compliance</b>									
Certification	IEC/EN 62109-1/2, IEC/EN 61000-6-1/3, EN50549, IEC61727/IEC62116								
<b>General Data</b>									
Dimensions (W x H x D)	270 x 250 x 130 mm								
Weight	5.5kg								
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								

# XG3-10kW

## Single Phase On-Grid Solar Inverter



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

- 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

- 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

**Efficient  
Higher Revenue**

**Intelligent  
Simple O&M**

**Reliable  
Worry Free**

	XG3KTL-2M	XG3.68KTL	XG4KTL	XG4.2KTL	XG4.6KTL	XG5KTL	XG6KTL	XG7KTL	XG8KTL	XG10KTL	XG7KTL1	XG8KTL1	XG10KTL1	
<b>Input (DC)</b>														
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													
Full-load MPP Voltage Range	120V ~ 480V	135V ~ 480V	145V ~ 480V	150V ~ 480V	160V ~ 480V	170V ~ 480V	190V ~ 480V	230V ~ 480V	250V ~ 480V	290V ~ 480V	230V ~ 480V	250V ~ 480V	290V ~ 480V	
MPPT Voltage Range	80V ~ 560V													
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			
<b>Output (AC)</b>														
Max. Output Current	15A	16A	20A	21A	23A <sup>d</sup>	25A <sup>d</sup>	30A	35A	40A	45.5A	35A	40A	45.5A	
Rated Output Power	3kW	3.68kW	4kW	4.2kW	4.6kW	5kW <sup>a</sup>	6kW	7kW	8kW	10kW	7kW	8kW	10kW	
Max. Output Power	3.3kVA	3.68kVA	4.4kVA	4.62kVA	5kVA <sup>b</sup>	5.5kVA <sup>c</sup>	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 )													
<b>Efficiency</b>														
Max. Efficiency	98.10%					98.30%					98.10%			
European Efficiency	97.30%					97.40%					97.30%			
MPPT Efficiency	99.90%													
<b>Protection</b>														
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													
<b>Communication</b>														
Display	LCD / LED+APP													
Communication	RS485 / WiFi / 4G													
<b>Standard Compliance</b>														
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													
<b>General Data</b>														
Dimensions (W x H x D)	380 x 380 x 160 mm													
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.

# XG3-15kW-S

## Three Phase On-Grid Solar Inverter



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

- 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

- 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



**Efficient  
Higher Revenue**



**Intelligent  
Simple O&M**



**Reliable  
Worry Free**

	XG3KTR-S	XG4KTR-S	XG5KTR-S	XG6KTR-S	XG8KTR-S	XG9KTR-S	XG10KTR-S	XG11KTR-S	XG12KTR-S	XG15KTR1-S
<b>Input (DC)</b>										
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	160V									
Rated Input Voltage	600V									
Full-load MPP Voltage Range	200V ~ 850V				360V ~ 850V			380V ~ 850V		450V ~ 850V
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									
<b>Output (AC)</b>										
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 )									
<b>Efficiency</b>										
Max. Efficiency	98.40%				98.70%					
European Efficiency	98.30%				98.50%					
MPPT Efficiency	99.90%									
<b>Protection</b>										
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									
<b>Communication</b>										
Display	LCD / LED+APP									
Communication	Standard: RS485 Optional: WiFi / GPRS / Ethernet									
<b>Standard Compliance</b>										
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									
<b>General Data</b>										
Dimensions (W x H x D)	481 x 395 x 195 mm									
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									

# XG17-25kW

## Three Phase On-Grid Solar Inverter



- 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.

- 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

- 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

**Efficient  
Higher Revenue**

**Intelligent  
Simple O&M**

**Reliable  
Worry Free**

	XG17KTR	XG20KTR	XG22KTR	XG25KTR
<b>Input (DC)</b>				
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
<b>Output (AC)</b>				
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 )			
<b>Efficiency</b>				
Max. Efficiency	98.40%			
European Efficiency	98.00%			
MPPT Efficiency	99.90%			
<b>Protection</b>				
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			
<b>Communication</b>				
Display	LCD / LED+APP			
Communication	Standard: RS485 Optional: WiFi / GPRS / Ethernet			
<b>Standard Compliance</b>				
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			
<b>General Data</b>				
Dimensions (W x H x D)	534 x 440 x 220 mm			
Weight	24kg			
Operating Temperature Range	-30° C ~ +60° C			
Cooling Method	Smart Cooling			
Protection Degree	IP66			
Max. Operating Altitude	4000 m			
Relative Humidity	0 ~ 100%			
Topology	Transformerless			
Night Power Consumption	< 1 W			



# XG30-40kW

## Three Phase On-Grid Solar Inverter



- 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

- 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

- 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

**Efficient  
Higher Revenue**

**Intelligent  
Simple O&M**

**Reliable  
Worry Free**

	XG30KTR	XG33KTR	XG36KTR	XG40KTR
<b>Input (DC)</b>				
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			
<b>Output (AC)</b>				
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)			
<b>Efficiency</b>				
Max. Efficiency	98.60%			
European Efficiency	98.50%			
MPPT Efficiency	99.90%			
<b>Protection</b>				
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			
<b>Communication</b>				
Display	LCD / LED+APP			
Communication	Standard: RS485 Optional: WiFi / GPRS / Ethernet			
<b>Standard Compliance</b>				
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			
<b>General Data</b>				
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	4000 m			
Relative Humidity	0 ~ 100%			
Topology	Transformerless			
Night Power Consumption	< 1 W			

# XG50-70kW

## Three Phase On-Grid Solar Inverter



- 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

- 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

- 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

**Efficient  
Higher Revenue**

**Intelligent  
Simple O&M**

**Reliable  
Worry Free**

	XG50KTR	XG50KTRL	XG60KTR	XG60KTRL	XG66KTRL	XG70KTRL
<b>Input (DC)</b>						
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		
<b>Output (AC)</b>						
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 )					
<b>Efficiency</b>						
Max. Efficiency	98.70%		98.80%		98.50%	
European Efficiency	98.40%				98.50%	
MPPT Efficiency	99.90%					
<b>Protection</b>						
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					
<b>Communication</b>						
Display	LCD / LED+APP					
Communication	Standard: RS485 Optional: WiFi / GPRS / Ethernet					
<b>Standard Compliance</b>						
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					
<b>General Data</b>						
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					

# XG100-136kW

## Three Phase On-Grid Solar Inverter



- 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

- 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

- 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

**Efficient  
Higher Revenue**

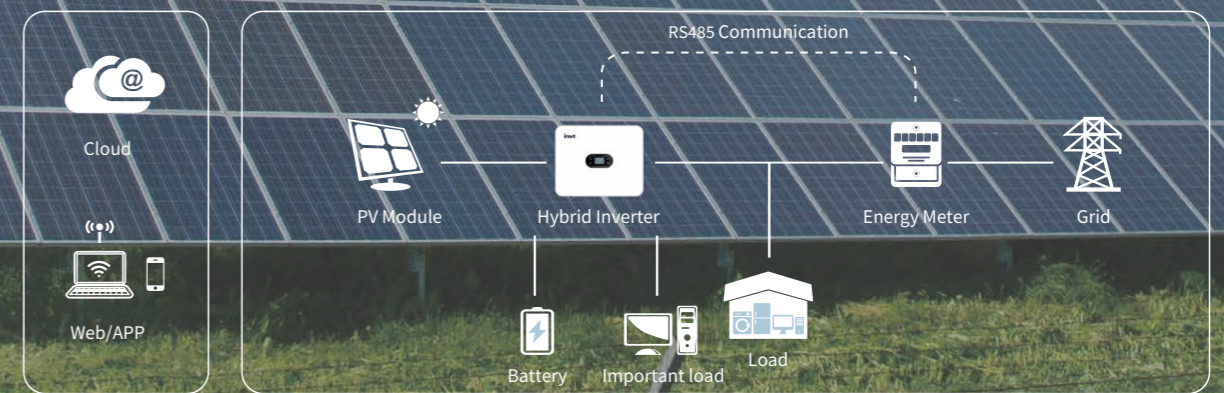
**Intelligent  
Simple O&M**

**Reliable  
Worry Free**

	XG100KTR-F	XG110KTR-F	XG136KTR-LF	XG136KTR-XF
<b>Input (DC)</b>				
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. Short Circuit Current per MPPT	30A			
Max. Short Circuit Current per MPPT	40A			
<b>Output (AC)</b>				
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 )			
<b>Efficiency</b>				
Max. Efficiency	98.70%			
European Efficiency	98.50%			
MPPT Efficiency	99.90%			
<b>Protection</b>				
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			
PID recovery function	Optional			
<b>Communication</b>				
Display	LCD / LED+APP			
Communication	Standard: RS485 Optional: WiFi / DRM / Bluetooth			
<b>Standard Compliance</b>				
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			
<b>General Data</b>				
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			

# Energy Storage Solution

## Residential Storage System



# XD3-6kW

## Single Phase Hybrid Inverter



### Efficient Higher Revenue

- Max. Efficiency 97.5%
- Max. PV Input Voltage 600V
- 150% Peak Output Power
- 2 MPP Trackers, 150% DC Input Oversizing
- Max. PV Input Current 16A, Compatible with High Power Modules



### Intelligent Simple O&M

- IP66 Protection Degree: support outdoor installation
- Smart I-V Curve Diagnosis Function: locate PV string faults accurately and automatically detect faults
- DC & AC Type II SPD: prevent lightning damage
- Battery Reverse Connection Protection



### Flexible Abundant Configuration

- Plug & Play, EPS Switching Under 10ms
- Compatible with Lead-acid and Lithium Batteries
- Max. 6 units Inverters Parallel
- AFCI Function (Optional): when an arc-fault is detected the inverter immediately stops operation

	XD3KTL	XD3K6TL	XD4KTL	XD4K6TL	XD5KTL	XD6KTL
<b>Input (PV)</b>						
Max. PV Input Power	4.5kW	5.4kW	6kW	6.9kW	7.5kW	9kW
Max. PV Input Voltage	600V					
Start-up Voltage	100V					
Rated Voltage	360V					
MPPT Voltage Range	100V ~ 550V					
Number of MPP Trackers	2					
Number of String per MPPT	1 / 1					
Max. Current per MPPT	16A					
Max. Short Circuit Current per MPPT	24A					
<b>Output (AC)</b>						
Rated Output Power	3kVA	3.68kVA	4kVA	4.6kVA	5kVA	6kVA
Max. Output Power	3.3kVA	3.68kVA	4.4kVA	4.6kVA	5.5kVA	6kVA
Max. Output Current	15A	16A	20A	20.9A	22.7A	27.3A
Rated Voltage	230V					
Rated Frequency	50Hz / 60Hz					
THDi(@Rated Power)	< 3%					
Power Factor	0.8 leading ~ 0.8 lagging					
<b>Output (EPS)</b>						
Max. Output Power	3kVA	3.68kVA	4kVA	4.6kVA	5kVA	6kVA
Max. Output Current	15A	16A	20A	20.9A	22.7A	27.3A
Peak Output Power, Time	4.5kW,10s	5.5kW, 10s	6kW, 10s	6.9kW, 10s	7.5kW, 10s	7.5kW, 10s
Rated Voltage, Frequency	230V, 50Hz					
THDv (@Rated Power)	< 3%					
Switch Time	< 10ms					
<b>Battery</b>						
Battery Type	Lithium, Lead-acid					
Battery Voltage Range	40V ~ 60V					
Max. Charge / Discharge Current	100A					
Communication	CAN					
<b>Efficiency</b>						
Max. Efficiency	97.50%					
EU Efficiency	97.20%					
Battery Charge / Discharge Efficiency	95.00%					
<b>Protection</b>						
DC Switch	Yes					
DC Reverse Polarity Protection	Yes					
Anti-islanding Protection	Yes					
AC Short Circuit Protection	Yes					
Residual Current Monitoring	Yes					
Insulation Resistance Monitoring	Yes					
Ground Fault Monitoring	Yes					
Over Current / Voltage Protection	Yes					
Battery Soft Start Protection	Yes					
Surge Protection	Type II					
AFCI Protection	Optional					
<b>Communication</b>						
Display	LCD					
Communication	RS485 / CAN / WIFI / 4G / LAN / Bluetooth					
<b>Standard Compliance</b>						
Certification	IEC/EN 62109-1/2, IEC/EN 61000-6-1/3, IEC61727/IEC62116, EN50549, CE10-21, C10/C11, VDE4105, VDE0126, G98/99, RD244, UNE217001, UNE217002, AS4777, NRS097-2-1					
<b>General Data</b>						
Dimension (W x H x D)	490 x 395 x 200 mm					
Weight	20kg					
Operating Temperature Range	-30°C ~ +60°C					
Cooling Method	Natural					
Protection Degree	IP66					
Max. Operating Altitude	4000m					
Noise	≤ 25dB					
Relative Humidity	0~100%					
Self-consumption	< 10W					
Topology	High Frequency Insolation (For battery)					

# XD5-12kW

## Three Phase Hybrid Inverter



### Efficient Higher Revenue

- 160% DC input oversizing, Max. PV input current 20A
- Max. charge/discharge current 50A
- 110% output power oversizing, 200% peak output power



### Intelligent Simple O&M

- Smart I-V Curve Diagnosis Function: locate PV string faults accurately and automatically detect faults
- IP66 protection: support outdoor installation
- DC & AC type II SPD: prevent lightning damage



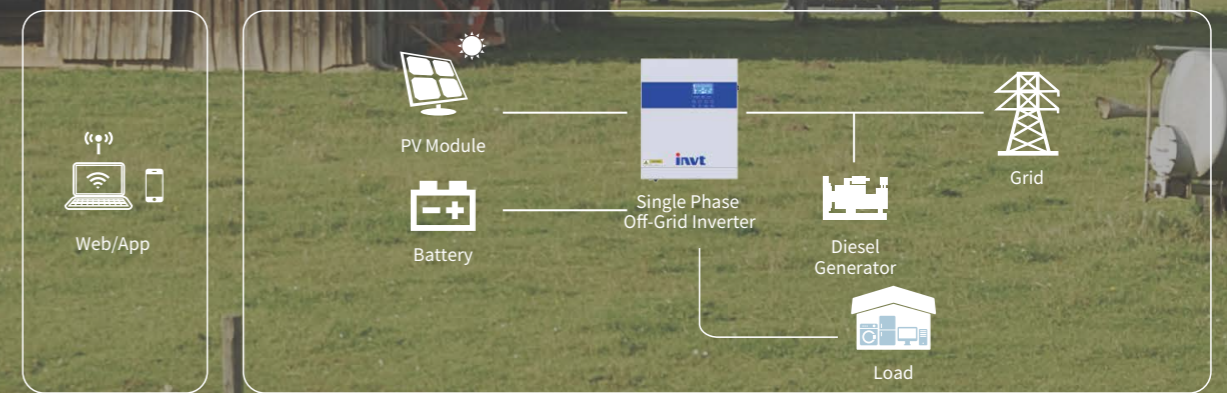
### Flexible Abundant Configuration

- Plug & play, EPS switching under 10ms
- AFCI function (optional): when an arc-fault is detected the inverter immediately stops operation
- Multiple working modes

	XD5KTR	XD6KTR	XD8KTR	XD10KTR	XD12KTR
<b>Input (PV)</b>					
Max. Input Power	8kW	9.6kW	12.8kW	16kW	19.2kW
Max. Input Voltage			1100V		
Start-up Voltage			160V		
Rated Voltage			600V		
MPPT Voltage Range			150V~1000V		
Number of MPP Trackers			2		
Number of String per MPPT			1 / 1		
Max. Current per MPPT			20A		
Max. Short Circuit Current per MPPT			40A		
<b>Output (AC)</b>					
Rated Output Power	5kVA	6kVA	8kVA	10kVA	12kVA
Max. Output Power	5.5kVA	6.6kVA	8.8kVA	11kVA	13.2kVA
Max. Output Current	7.2A	8.7A	11.6A	14.5A	17.4A
Rated Grid Voltage			230Vac / 400Vac		
Rated Grid Frequency			50Hz / 60Hz		
THDi(@Rated Power)			< 2%		
Power Factor			0.8 leading ~ 0.8 lagging		
<b>Output (EPS)</b>					
Max. Output Power	5.5kVA	6.6kVA	8.8kVA	11kVA	13.2kVA
Peak Output Power, Time	10kW, 60s	12kW, 60s	16kW, 60s	20kW, 60s	20kW, 60s
Rated Voltage, Frequency			230V / 400V, 50Hz		
THDv(@Rated Power)			< 3%		
Switch Time			< 10ms		
<b>Battery</b>					
Battery Type			Lithium / Lead-acid		
Battery Voltage Range			160V ~ 800V		
Max. Charge / Discharge Current			50A		
Communication			CAN / RS485		
<b>Efficiency</b>					
Max. Efficiency			98.20%	98.40%	
European Efficiency			97.60%	97.80%	
Battery Charge / Discharge Efficiency			97.60%	97.80%	
<b>Protection</b>					
DC Switch			Yes		
DC Reverse Polarity Protection			Yes		
Anti-islanding Protection			Yes		
AC Short Circuit Protection			Yes		
Residual Current Monitoring			Yes		
Insulation Resistance Monitoring			Yes		
Ground Fault Monitoring			Yes		
Over Current / Voltage Protection			Yes		
I-V Curve Scan			Yes		
Battery Soft Start Protection			Yes		
Surge Protection			Type II		
AFCI Protection			Optional		
<b>Communication</b>					
Display			LCD		
Communication			RS485 / CAN / WIFI / 4G / LAN / Bluetooth		
<b>General Data</b>					
Dimension (W x H x D)			534 x 440 x 220 mm		
Weight			<30kg		
Operating Temperature Range			-30°C ~ +60°C		
Cooling Method			Natural		
Protection Degree			IP66		
Max. Operating Altitude			4000 m		
Noise			< 35dB		
Relative Humidity			0~100%		
Self-consumption			< 10W		
Topology			Transformerless		

# Off-Grid PV Solution

## Residential Off-grid PV Solution



# XN3024

## Single Phase Off-Grid Solar Inverter



### Efficient Higher Revenue

- Built-in 80A MPPT solar charge
- Wide PV input voltage range



### Intelligent Simple O&M

- Support cold start
- Intelligent fan speed adjustment
- Over load / over temperature / short circuit protection
- Smart battery charger design, optimize battery performance



### Flexible Abundant Configuration

- Support grid / generator input
- Compatible with lithium battery
- Multiple charging voltage levels for different batteries
- Multiple work mode, support AC priority, solar priority

	XN3024
Rated Power	3200VA/3000W
<b>Input</b>	
Voltage	230Vac
Selectable Voltage Range	170Vac~280Vac (for personal computers) 90Vac~280Vac (for home appliances)
Frequency Range	50Hz / 60Hz (auto sensing)
<b>Output</b>	
AC Voltage Regulation (Batt. Mode)	230Vac±5%
Surge Power	6400VA
Overload Capability	5s@ ≥ 150% load; 10s@110%~150% load
Efficiency (Peak)	94%
Transfer Time	10ms (for personal computers); 20ms (for home appliances)
Waveform	Pure Sine Wave
<b>Battery</b>	
Battery Nominal Voltage	24Vdc
Floating Charge Voltage	27Vdc
Overcharge Protection	31Vdc
<b>Solar Charger &amp; AC Charge</b>	
Solar Charger Type	MPPT
Maximum PV Array Power	3000W
Solar Charger Type	240Vdc
MPPT Range	90Vdc ~ 430Vdc
Maximum PV Array Open Circuit Voltage	450Vdc
Maximum Utility Charge Current	60A
Maximum Solar Charge Current	80A
<b>Protection</b>	
Protection	AC Short Circuit Protection, AC Over Current Protection, Over Temperature Protection, etc.
<b>Communication</b>	
Display	LCD
Communication Port	RS232
<b>Standard Compliance</b>	
Safety/ EMC	CE
<b>General Data</b>	
Dimension (W x H x D)	282 x 348 x 105 mm
Net Weight	5.5kg
Protect Degree	IP21
Operating Temperature	0° C ~ +55° C
Storage Temperature	-15° C ~ +60° C
Humidity	5%~95% (non-condensing)



# XN5548 & XN5548-P

## Single Phase Off-Grid Solar Inverter



### Efficient Higher Revenue

- Built-in 110A MPPT solar charge
- Wide PV input voltage range



### Intelligent Simple O&M

- Over load / over temperature / short circuit protection
- Smart battery charger design, optimize battery performance



### Flexible Abundant Configuration

- Support grid / generator input
- Compatible with lithium battery
- Up to 6 units in parallel (P model)
- Multiple charging voltage levels for different batteries
- Multiple work mode, support AC priority, solar priority

	XN5548	XN5548-P
Rated Power	5500VA/5500W	
<b>Input</b>		
Voltage	230Vac	
Selectable Voltage Range	170Vac~280Vac (for personal computers) 90Vac~280Vac (for home appliances)	
Frequency Range	50Hz / 60Hz (auto sensing)	
<b>Output</b>		
AC Voltage Regulation (Batt. Mode)	230Vac±5%	
Surge Power	11000VA	
Overload Capability	5s@ ≥ 150% load; 10s@110%~150% load	
Efficiency (Peak)	94%	
Transfer Time	10ms (for personal computers); 20ms (for home appliances)	
Waveform	Pure Sine Wave	
<b>Battery</b>		
Battery Nominal Voltage	48Vdc	
Floatingg Charge Voltage	52Vdc	
Overcharge Protection	62Vdc	
<b>Solar Charger &amp; AC Charge</b>		
Solar Charger Type	MPPT	
Maximum PV Array Power	6000W	
MPPT Range	120Vdc~450Vdc	
Maximum PV Array Open Circuit Voltage	500Vdc	
Maximum Utility Charge Current	80A	
Maximum Solar Charge Current	110A	
<b>Protection</b>		
Protection	AC Short Circuit Protection, AC Over Current Protection, Over Temperature Protection, etc.	
<b>Communication</b>		
Display	LCD	
Communication Port	RS232 / RS485	
<b>Standard Compliance</b>		
Safety/ EMC	CE	
<b>General Data</b>		
Dimension (W x H x D)	297 x 472 x 133 mm	
Net Weight	10.5kg	
Protect Degree	IP21	
Operating Temperature	0° C ~ +55° C	
Storage Temperature	-15° C ~ +60° C	
Humidity	5%~95% (non-condensing)	
Parallel	No	Up to 6 pcs

# STICK LOGGER

GPRS / WiFi / Ethernet



### 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.



### 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 troubleshooting.

# DIN-RAIL LOGGER

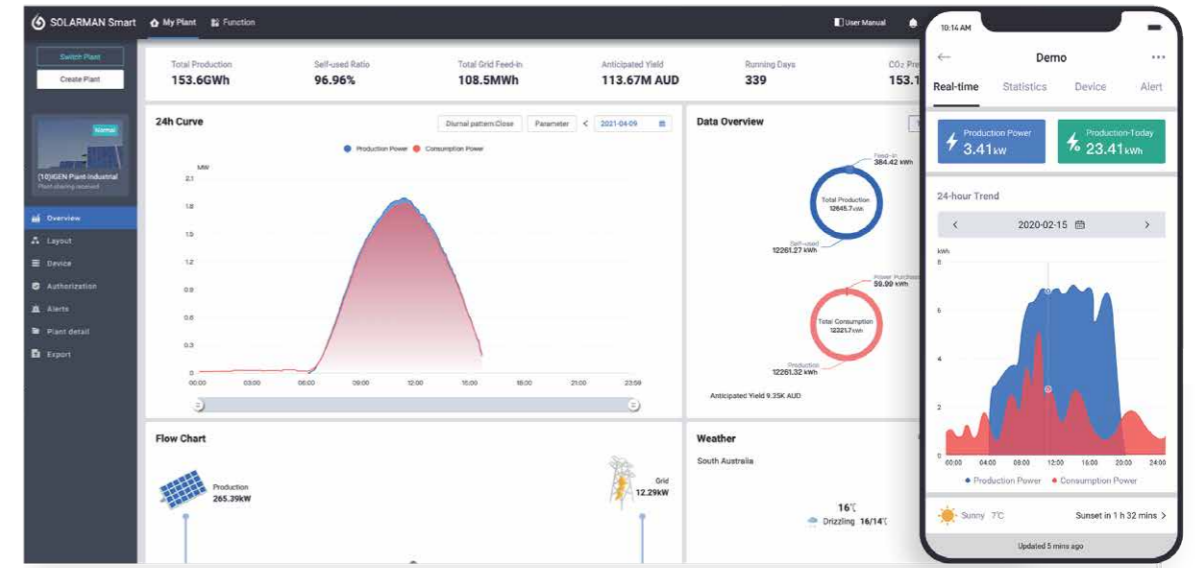
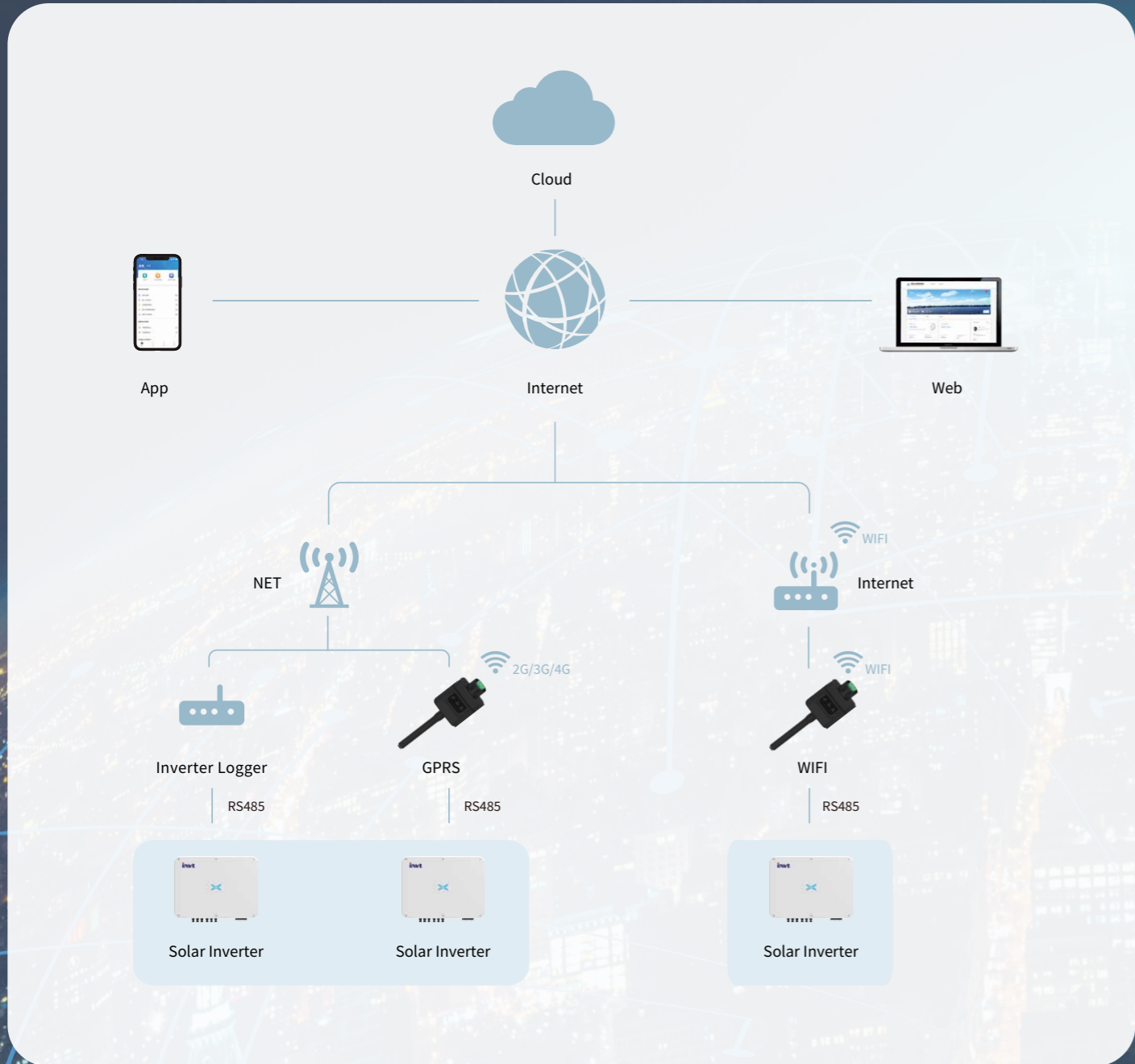
GPRS / WiFi / Ethernet



	LS4G-5	LS4G-4	LSW-5	LSW-3	LSG-3	LSE-3
Remote Communication Interface	4G	4G	2.4G WiFi	2.4G WiFi	GPRS	LAN
GNSS	<20m	—	—	—	—	—
Antenna	Internal Antenna	External Antenna	Internal Antenna	External Antenna	External Antenna	—
Data Interface	RS485 / RS232 / TTL					
Working Voltage	DC 5-12V					
Working Power	3.5W	3.5W	1.5W	1.5W	3W	1W
SIM Card	Chip Card / MicroSIM	—	—	—	Chip Card / MicroSIM	—
Memory	8M Flash	8M Flash	8M Flash	2M Flash	2M Flash	2M Flash
Working Temperature	-40°C ~ +85°C					
Working Humidity	< 90% (No Condensation)					
No. of Connections	One					
Serial Communication Rate	9600bps (1200—115200bps Configurable)					
Data Acquisition Interval	Default: 5 mins (1-15 mins Configurable)					
User Configuration	BT / APP	APP	BT / APP / Web	APP / Web	APP / BT	Web / APP
Firmware Upgrade	BT / Remote	Remote	BT / Remote / Web	Remote / Web	Remote	Remote / Web
Real-time Control	√					
Data Resuming	√					
Power-off Reminder	√	√	√	—	—	—

	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 Flash (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 x 18 mm
Installation Method	35mm DIN-Rail

# Monitoring Solution



## Monitoring Platform

### SOLARMAN Business

PV Monitoring and Management Platform.

#### For Device Manufacturer:

- Device Control and Firmware Upgrade
- Data Processing
- Authorization Management
- Batch Task
- Device Classification

#### For Service Provider:

- Plentiful Information
- Intelligent AI Diagnosis
- Most Cost-effective Virtual Weather Station
- Simple Drag-and-Drop
- Intelligent and Intuitive Alerts

### SOLARMAN Smart

A brand new smart energy management application, which is specially designed for global users.

#### Advantage:

- All-round Monitoring
- Create a Plant within 1 min
- Timely Alert Report
- Intuitive System Layout
- Flexible Plant Management



For Business



For Home

RESIDENTIAL CASE

RESIDENTIAL CASE



10kW Solar System in Romania (XG10KTR)



40kW Solar System in Jiangxi, China (XG40KTR)



25kW Solar System in Malaysia (XG25KTR)



8kW Solar System in Finland (XG8KTR)



12kW Solar System in Malaysia (XG12KTR)



25kW Solar System in Slovakia (XG25KTR)



30kW Solar System in Israel (XG30KTR)



10kW Solar System in Armenia (XG10KTR)



30kW Solar System in Serbia (XG30KTR)

COMMERCIAL CASE

COMMERCIAL CASE



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



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



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



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)



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



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



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



2MW Rooftop PV Plant in Türkiye  
(XG110KTR)



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



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