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invt

POWERED BY
SOLAR

Powered by Solar

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SOLAR INVERTER CATALOG

www.invt-solar.com

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COMPANY PROFILE

ABOUT US

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

INVT Solar (INVT Solar Technology (Shenzhen) Co.,Ltd.), is a professional solar inverters manufacturer and national high-tech enterprise. Founded in ����, 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 **-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 *** 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.

��%+
R&D Investment/ Revenue

��%+
R&D Staff

����+
Patents

�* Years
Technical Accumulation

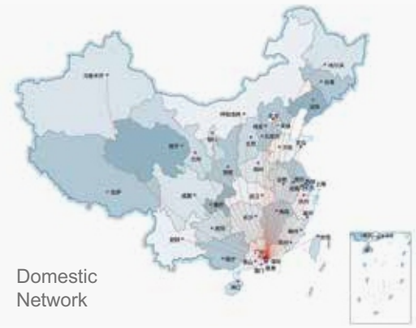
��
R&D Centers

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

Global Network



Domestic Network

INVT MILESTONE

����
Founded
* st gen. of VFDs launched

����
Vector VFDs launched

����
Started to explore overseas Market

����
Awarded as national Key High-tech Enterprise

����
Listed on Shenzhen stock market(******)
India subsidiary established
Stepped into UPS and rail transit business

����
Annual sales over $*** million
Set out to explore the business in servo, PLC and power sectors

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

����
Won transportation system project for Shenzhen metro
Won the Chinese Outstanding Patented Invention"award
Annual sales over $*** million

����
Guangming headquarter came into service
No. * market share in Vietnam

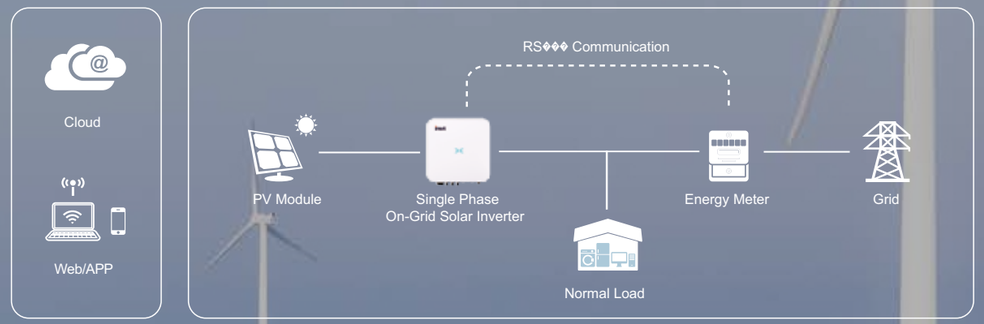
����
Won the National Science and Technology Major Project of the Ministry of Science and Technology of China award

����
Future-oriented strategic reform

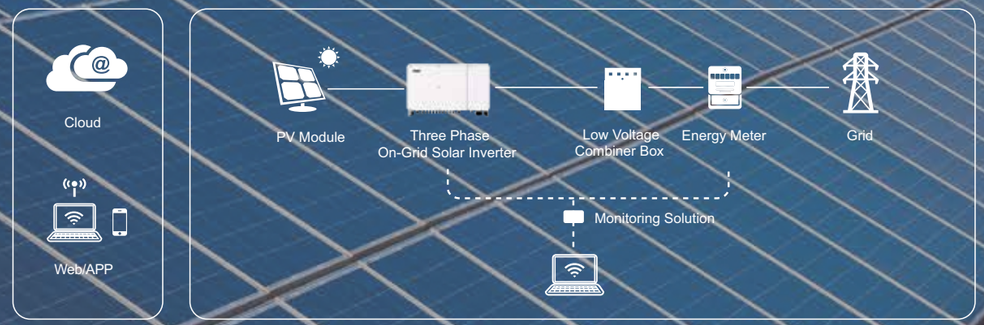
����
IABG Founded;
LTC regrouped
EV Drive subsidiary merged with EV Charging Subsidiary

On-Grid PV Solution

Residential On-grid PV Solution



Commercial On-grid PV Solution



XG◆-◆kW-S

Single Phase On-Grid Solar Inverter

Efficient Higher Revenue

- ◆◆◆% DC Input Oversizing
- Wide MPPT voltage range: ◆◆V-◆◆◆V
- Max. input current per string: ◆◆A .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 RS◆◆◆/WiFi/◆G: remote monitoring and operation via PC or mobile phones

Reliable Worry Free

- IP◆◆ 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	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	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									
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)									
E翻 ciency										
Max. E翻 ciency	97.30%				97.60%		97.80%			
European E翻 ciency	97.00%				97.20%		97.30%			
MPPT E翻 ciency	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	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.

XG[illegible]-[illegible][illegible]kW

Single Phase On-Grid Solar Inverter

Efficient Higher Revenue

- [illegible] MPP Trackers , Max. input current per string: [illegible][illegible]A
- [illegible][illegible][illegible]% 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 RS[illegible][illegible][illegible]/WiFi/[illegible]G: remote monitoring and operation via PC or mobile phones

Reliable Worry Free

- IP[illegible][illegible] 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

	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												
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		
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)												
E[illegible] ciency													
Max. E[illegible] ciency	98.10%				98.30%					98.10%			
European E[illegible] ciency	97.30%				97.40%					97.30%			
MPPT E[illegible] ciency	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	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 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 .

XG◆-◆◆kW-S

Three Phase On-Grid Solar Inverter

Efficient Higher Revenue

- ◆MPP Trackers, high single circuit tracking accuracy, fast dynamic response
- ◆◆◆% DC Input Oversizing
- Wide MPPT voltage range: ◆◆◆V-◆◆◆◆V
- 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 RS◆◆◆ (WiFi/GPRS/Ethernet optional): remote monitoring and operation via PC or mobile phones

Reliable Worry Free

- IP◆◆ 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	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									
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)									
E翻 ciency										
Max. E翻 ciency	98.40%				98.70%					
European E翻 ciency	98.30%				98.50%					
MPPT E翻 ciency	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 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									

XG??-??kW

Three Phase On-Grid Solar Inverter

Efficient Higher Revenue

- ? MPP Trackers, high single circuit tracking accuracy, fast dynamic response
- ???% DC Input Oversizing
- Maximum efficiency ??.?%. Wide MPPT voltage range: ???V-????V
- 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 RS??? (WiFi/GPRS/Ethernet optional): remote monitoring and operation via PC or mobile phones

Reliable Worry Free

- IP?? 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)			
E翻 ciency				
Max. E翻 ciency	98.40%			
European E翻 ciency	98.00%			
MPPT E翻 ciency	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 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			

XG��-��kW

Three Phase On-Grid Solar Inverter

Efficient Higher Revenue

- ·-· MPP Trackers, high single circuit tracking accuracy, fast dynamic response
- ···% DC Input Oversizing
- Maximum efficiency of ··.·%. Wide MPPT voltage range: ···V-····V
- 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 RS··· (WiFi/GPRS/Ethernet optional): remote monitoring and operation via PC or mobile phones

Reliable Worry Free

- IP·· 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

	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)			
E翻 ciency				
Max. E翻 ciency	98.60%			
European E翻 ciency	98.50%			
MPPT E翻 ciency	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	4000 m			
Relative Humidity	0 ~ 100%			
Topology	Transformerless			
Night Power Consumption	< 1 W			

XG��-��kW

Three Phase On-Grid Solar Inverter

Efficient Higher Revenue

- ◆ MPP Trackers, high single circuit tracking accuracy, fast dynamic response and higher power generation
- ◆◆◆% DC Input Oversizing
- Wide MPPT voltage range: ◆◆◆V-◆◆◆◆V
- 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 RS◆◆◆ (WiFi/GPRS/Ethernet optional): remote monitoring and operation via PC or mobile phones

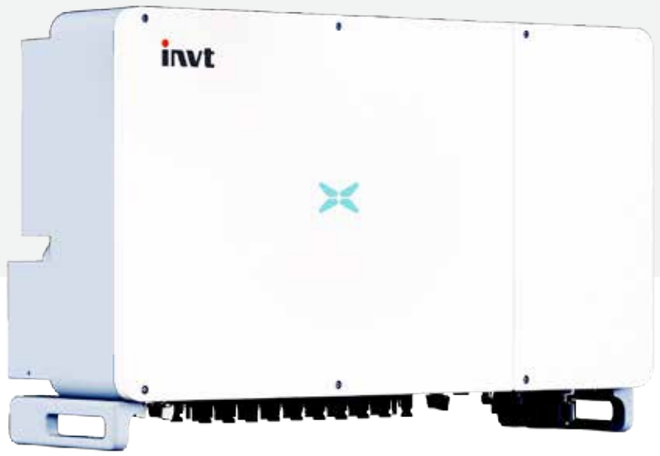
Reliable Worry Free

- IP◆◆ 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)					
E◆◆ ciency						
Max. E◆◆ ciency	98.70%		98.80%			
European E◆◆ ciency	98.40%				98.50%	
MPPT E◆◆ ciency	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					

XG���-���kW

Three Phase On-Grid Solar Inverter



Efficient Higher Revenue

- ◆-◆◆ MPP Trackers, high single circuit tracking accuracy, fast dynamic response and higher power generation
- ◆◆◆% DC Input Oversizing
- Maximum efficiency of ◆◆.◆%. Wide MPPT voltage range: ◆◆◆V-◆◆◆◆V
- 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 RS◆◆◆ (WiFi/DRM/Bluetooth optional): remote monitoring and operation via PC or mobile phones

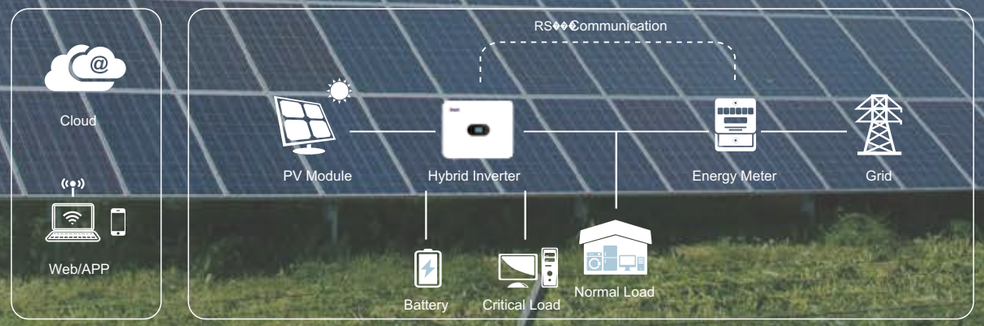
Reliable Worry Free

- IP◆◆ 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)			
E翻 ciency				
Max. E翻 ciency	98.70%			
European E翻 ciency	98.50%			
MPPT E翻 ciency	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			
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			

Energy Storage Solution

Residential Storage System



XD◆-◆kW

Single Phase Hybrid Inverter

Efficient
Higher Revenue

- Max. Efficiency ◆◆.◆%
- Max. PV Input Voltage ◆◆◆V
- ◆◆◆% Peak Output Power
- ◆ MPP Trackers, ◆◆◆% DC Input Oversizing
- Max. PV Input Current ◆◆A, Compatible with High Power Modules

Intelligent
Simple O&M

- IP◆◆ 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 ◆◆ms
- Compatible with Lead-acid and Lithium Batteries
- Max. ◆ units Inverters Parallel
- AFCI Function (Optional): when an arc-fault is detected the inverter immediately stops operation

	XD3KTL	XD3K6TL	XD4KTL	XD4K6TL	XD5KTL	XD6KTL
Input（PV）						
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					
Output (AC)						
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					
Output（EPS）						
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					
Battery						
Battery Type	Lithium, Lead-acid					
Battery Voltage Range	40V ~ 60V					
Max. Charge / Discharge Current	100A					
Communication	CAN					
E翻 ciency						
Max. E翻 ciency	97.50%					
EU E翻 ciency	97.20%					
Battery Charge / Discharge E翻 ciency	95.00%					
Protection						
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					
Communication						
Display	LCD					
Communication	RS485 / CAN / WIFI / 4G / LAN / Bluetooth					
Standard Compliance						
Certification	IEC/EN 62109-1/2, IEC/EN 61000-6-1/3, IEC61727/IEC62116, EN50549, CEI0-21, C10/C11, VDE4105, VDE0126, G98/99, RD244, UNE217001, UNE217002, AS4777, NRS097-2-1					
General Data						
Dimension（W x H x D）	490 x 395 x 200 mm					
Weight	20kg					
Operating Temperature Range	-30℃ ～ +60℃					
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)					

XD◆-◆◆kW

Three Phase Hybrid Inverter

Efficient
Higher Revenue

- ◆◆◆% DC input oversizing, Max. PV input current ◆◆A
- Max. charge/discharge current ◆◆A
- ◆◆◆% output power oversizing, ◆◆◆% peak output power

Intelligent
Simple O&M

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

Flexible
Abundant Configuration

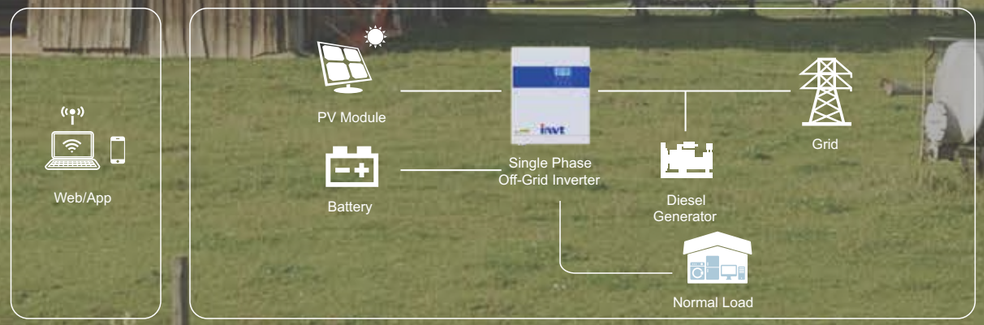
- Plug & play, EPS switching under ◆◆ms
- AFCI function (optional): when an arc-fault is detected the inverter immediately stops operation
- Multiple working modes

	XD5KTR	XD6KTR	XD8KTR	XD10KTR	XD12KTR
Input（PV）					
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				
Output (AC)					
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				
Output（EPS）					
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				
Battery					
Battery Type	Lithium / Lead-acid				
Battery Voltage Range	160V ~ 800V				
Max. Charge / Discharge Current	50A				
Communication	CAN / RS485				
E翻 ciency					
Max. E翻 ciency	98.20%			98.40%	
European E翻 ciency	97.60%			97.80%	
Battery Charge / Discharge E翻 ciency	97.60%			97.80%	

Protection	
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
Communication	
Display	LCD
Communication	RS485 / CAN / WIFI / 4G / LAN / Bluetooth
General Data	
Dimension（W x H x D）	534 x 440 x 220 mm
Weight	<30kg
Operating Temperature Range	-30℃～+60℃
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



XN????

Single Phase Off-Grid Solar Inverter

Efficient
Higher Revenue

- Built-in ??A 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
Input	
Voltage	230Vac
Selectable Voltage Range	170Vac~280Vac (for personal computers) 90Vac~280Vac (for home appliances)
Frequency Range	50Hz / 60Hz (auto sensing)
Output	
AC Voltage Regulation (Batt. Mode)	230Vac±5%
Surge Power	6400VA
Overload Capability	5s@ ≥ 150% load; 10s@110%~150% load
E翻 ciency (Peak)	94%
Transfer Time	10ms (for personal computers); 20ms (for home appliances)
Waveform	Pure Sine Wave
Battery	
Battery Nominal Voltage	24Vdc
Floatingg Charge Voltage	27Vdc
Overcharge Protection	31Vdc
Solar Charger & AC Charge	
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
Protection	
Protection	AC Short Circuit Protection, AC Over Current Protection, Over TemperatureProtection, etc.
Communication	
Display	LCD
Communication Port	RS232
Standard Compliance	
Safety/ EMC	CE
General Data	
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)

XN???? & XN????-P

Single Phase Off-Grid Solar Inverter

Efficient
Higher Revenue

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

Intelligent
Simple O&M

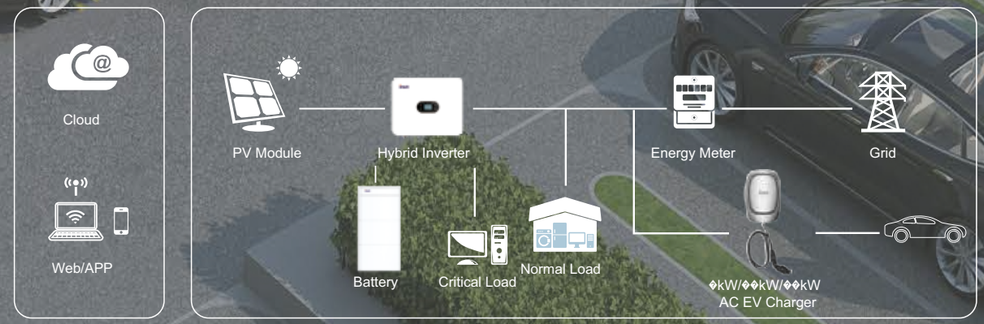
- Over load / over temperature / short circuit protection
- Smart battery charger design, optimize battery performance

Flexible
Abundant Configuration

- Support grid / generator input
- Compatible with lithium battery
- Up to ? 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	
Input		
Voltage	230Vac	
Selectable Voltage Range	170Vac~280Vac (for personal computers) 90Vac~280Vac (for home appliances)	
Frequency Range	50Hz / 60Hz (auto sensing)	
Output		
AC Voltage Regulation (Batt. Mode)	230Vac±5%	
Surge Power	11000VA	
Overload Capability	5s@ ≥ 150% load; 10s@110%~150% load	
E翻 ciency (Peak)	94%	
Transfer Time	10ms (for personal computers); 20ms (for home appliances)	
Waveform	Pure Sine Wave	
Battery		
Battery Nominal Voltage	48Vdc	
Floatingg Charge Voltage	52Vdc	
Overcharge Protection	62Vdc	
Solar Charger & AC Charge		
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	
Protection		
Protection	AC Short Circuit Protection, AC Over Current Protection, Over Temperature Protection, etc.	
Communication		
Display	LCD	
Communication Port	RS232 / RS485	
Standard Compliance		
Safety/ EMC	CE	
General Data		
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

EV Charging Solution



EVC??-AW?K/??K/??KGP?-UE

AC Wallbox Home-EU

Fast

- Max ??kW, Output amperage adjustable from ?A to ??A

Reliable and Robust

- Protect from water and dust (IP??)
- Residual Current Device (RCD): Type A+?mA DC, over temperature, over current, over voltage protection

Smart

- DLB & ALM and integration with solar

Easy to Use

- Easy to install and maintain

Convenient

- Remote firmware update and troubleshooting

	EVC16-AW7KGP1UE	EVC16-AW11KGP1UE	EVC16-AW22KGP1UE
Input & Output			
Input Voltage	230Vac±10% (L, N, PE)	400Vac±10% (L1, L2, L3, N, PE)	
Input Frequency	50Hz / 60Hz		
Output Voltage	AC230Vac±10%	AC400Vac±10%	AC400Vac±10%
Max. Output Power	7kW	11kW	22kW
Max. Output Current	≤ 32A	≤ 16A	≤ 32A
Charging Interface Standard	IEC / EN 62196 Series Type 2		
Connection Type	Plug		
Cable Length	4m		
Number of Charging Interface	1		
Protection			
Over Voltage Protection	Yes		
Under Voltage Protection	Yes		
Over Current Protection	Yes		
Short Circuit Protection	Yes		
Current Leakage Protection	Yes		
Over-temp Protection	Yes		
Ground-detect	Yes		
Function & Accessory			
Connectivity	WiFi		
User Authentication	RFIP / APP		
RCD	Type A (≤ 30mA)		
Communication Protocol	OCPP1.6J		
Start Time	3~8 s		
E翻 ciency	99.00%		
Power Factor	99.00%		
Emergency Stop Button	Yes		
Intelligent Power Distribution	Yes		
Working Environment			
IP Grade	IP54		
Operating Temperature	-25 ℃～ +55 ℃		
Storage Temperature	-40 ℃～ +75 ℃		
Relative Humidity	≤ 95% non-condensation		
Maximum Altitude	≤ 2000m		
Cooling Mode	Natural Cooling	Natural Cooling	Internal Fan Cooling
Standby Power Loss	≤ 5W		
Mechanical & Others			
Dimension (W x H x D)	230 x 375 x 115 mm (Wall mounting)		
Weight	3.5kg (Without bracket)	4kg (Without bracket)	5kg (Without bracket)
Enclosure Type	Plastic		
Certification	CE		

EVC��-AW�K/�K/��KGF�W(US)

AC Wallbox Home-US

Diverse

- Max ��kW (�kW, �kW optional)
- The rated working currents are ��A, ��A, and ��A respectively

Safety

- Protective class IP�� (NEMA �X)
- Meet multi scenario applications
- Integrated Residual Current Device (RCD): �mA AC+��mADC, over current, over voltage protection, gun disconnection protection

Smart

- DLB & ALM and integration with solar

Easy to Use

- Easy to install and maintain
- Autostart

Userfriendly

- Remote firmware update troubleshooting and Appointment activation

	EVC16-AW7KGF1W(US)	EVC16-AW9KGF1W(US)	EVC16-AW11KGF1W(US)
Input & Output			
Charge Mode	Level 2		
Iuput Voltage	208Vac / 240Vac		
Input Frequency	50Hz / 60Hz		
Input Cord	NEMA 6-50P, NEMA 14-50P		Hardwired
Output Voltage	208Vac / 240Vac		
Max. Iuput Current	≤ 32A	≤ 40A	≤ 48A
Max. Output Power	7kW	9kW	11kW
Max. Output Current	≤ 32A	≤ 40A	≤ 48A
Charging Interface Standard	SAE J1772 AC Level 2 Type1		
Connection Type	Plug		
Cable Length	24.6 ft. (7.5m)		
Number of Charging Interface	1		
Protection			
Over Voltage Protection	Yes		
Under Voltage Protection	Yes		
Over Current Protection	Yes		
Short Circuit Protection	Yes		
Current Leakage Protection	Yes		
Over-temp Protection	Yes		
Ground-detect	Yes		
Surge Protection	Yes		
Function & Accessory			
Connectivity	WiFi / Bluetooth / Ethernet / RS485		
User Authentication	APP		
Ground Fault Detection	20mA CCID with auto retry		
Communication Protocol	OCPP1.6J		
Start Time	3~8 s		
E翻 ciency	99.00%		
Noise Level	≤ 45dB		
Energy Metering	Metering on board: ±5%		
Safety and Compliance	NEC Article 625 and UL 916, UL 2594, UL2231-1, UL2231-2, UL 1998, CSAC22.2.No.280		
Display	5LEDs+1 Charging breath circular LED		
Working Environment			
Enclosure Rating	NEMA 4X, indoor or outdoor installation		
Operating Temperature	-30 ℃～ +55 ℃		
Storage Temperature	-40 ℃～ +75 ℃		
Relative Humidity	≤ 95% non-condensation		
Maximum Altitude	≤ 2000m		
Cooling Mode	Natural Cooling		
Standby Power Loss	≤ 3.6W		
Mechanical & Others			
Dimension (W x H x D)	330 x 210 x 82 mm (Wall mounting)		
Weight	About 8kg (Gross weight)		
Enclosure Type	Plastic		
Certification	UL & FCC & ENERGY STAR		

EVC��-AW��KGP/TP�UE(MID)

AC Wallbox Commercial

Diverse

- Max ��kW, Output amperage adjustable from ΦA to ��A
- Optional socket or type Φ charging cable

Reliable and Robust

- Metal housing Protect from water and dust (IP��)
- Equipped with multiple protection functions
- MID Certificate
- Level Φ charging station, with up to ��A (��kW) charging power

Smart

- DLB & ALM
- Connect to INVT Charge mobile App, trackmanage and optimize EV charger anywhere and anytime

Convenient

- Local or remote upgrade

	EVC16-AW22KGP1UE(MID)	EVC16-AW22KTP1UE(MID)
Input & Output		
Input Voltage	400Vac±10% (L1, L2, L3, N, PE)	
Input Frequency	50Hz / 60Hz	
Output Voltage	400Vac±10%	
Max. Output Power	22kW	
Max. Output Current	≤ 32A	
Charging Interface Standard	IEC / EN 62196 Series Type 2	
Connection Type	Plug	Socket
Cable Length	5m	—
Number of Charging Interface	1	
Protection		
Over Voltage Protection	Yes	
Under Voltage Protection	Yes	
Over Current Protection	Yes	
Short Circuit Protection	Yes	
Current Leakage Protection	Yes	
Over-temp Protection	Yes	
Ground-detect	Yes	
Surge Protection	Yes	
Function & Accessory		
Connectivity	Internet access via 4G (optional) / Ethernet (RJ45)	
User Authentication	RFIP	
RCD	Type A (≤ 30mA)	
Communication Protocol	OCPP1.6J	
Start Time	3~8 s	
Energy Meter	MID	
Display Screen	5 inch	
Noise Level	≤ 45dB	
Application	Indoor, Outdoor	
E翻 ciency	≥ 99.00%	
Power Factor	≥ 99.00%	
Emergency Stop Button	Yes	
Intelligent Power Distribution	Yes	
Working Environment		
IP Grade	IP65	
Operating Temperature	-30 ℃～ +50 ℃	
Storage Temperature	-40 ℃～ +75 ℃	
Relative Humidity	≤ 95% non-condensation	
Maximum Altitude	≤ 2000m	
Cooling Mode	Natural Cooling	
Standby Power Loss	≤ 5W	
Mechanical & Others		
Dimension (W x H x D)	336 x 187 x 85 mm	
Weight	8.5kg	
Enclosure Type	Sheet metal	
Certification	CE	

EVC??-DH??K/???K/???K?P?UE

DC Fast

Fast

· Max. ???kW output up to ???A charging current in boost mode

Reliable and Robust

· IP?? outdoor use and protect from water and dust

Smart

· DLB and integration with solar

Module Design

· Easy upgrades and maximum reliability & serviceability

Convenient

· Remote firmware update and troubleshooting

	EVC16-DH60K7P3UE	EVC16-DH120K7P3UE	EVC16-DH180K7P3UE
Input & Output			
Input Voltage	260Vac~485Vac (L1, L2, L3, N, PE)		
Input Frequency	45Hz ~ 65Hz		
Max. Input Voltage	124Vac	216Vac	310Vac
Output Voltage (Vdc)	CCS2: 200 to 1000 / Type 2: 400 (CHAdeMO: 150 to 500 Vdc optional)		
Max. Output Power	DC: 60kW / AC: 22kW	DC: 120kW / AC: 22kW	DC: 180kW / AC: 22kW
Max. Output Current	≤ 200A	≤ 200A*2	≤ 200A*2
Charging Interface Standard	IEC / EN 62196 Series CCS2 / Type 2		
Connection Type	Plug		
Cable Length	CCS2: 5m / Type 2: 4.5m		
Number of Charging Interface	3		
Protection			
Over Voltage Protection	Yes		
Under Voltage Protection	Yes		
Over Current Protection	Yes		
Short Circuit Protection	Yes		
Current Leakage Protection	Yes		
Over-temp Protection	Yes		
Ground-detect	Yes		
Surge Protection	Yes		
Insulation Monitor	Yes		
Function & Accessory			
Connectivity	Internet access via 4G (optional) / Ethernet (RJ45)		
User Authentication	QR code / RFIP		
RCD	Type A (≤ 30mA)		
User Interface	7.0-inch IPS-TFT-LCD Touchscreen		
Communication Protocol	OCPP1.6J		
Cable Retraction System	Optional		
Energy Metering	Class A (DC), Class B (AC) DC meter PTB certificated optional AC meter MID, PTB certificated optional		
Power Factor	≥ 99.00%		
Start Time	3~8 s		
E翻 ciency	≥ 96.00%		
RFID Reader	ISO14443 Type AMIFARE® ONE (MF1) Card		
Emergency Stop Button	Yes		
Intelligent Power Distribution	Yes		
Working Environment			
IP Grade	IP65 outdoor use and IK-10		
Operating Temperature	-25 ℃～ +45 ℃		
Storage Temperature	-40 ℃～ +75 ℃		
Relative Humidity	≤ 95% non-condensation		
Maximum Altitude	＜ 2000m (2000m to 5000m with power derating)		
Cooling Mode	Intelligent fan cooling		
Noise Level	≤ 70dB		
Mechanical & Others			
Dimension (W x H x D)	550 x 750 x 1840 mm		
Weight	About 250kg	About 280kg	About 320kg
Enclosure Type	Galvanizing plate		
Certification	CE		

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.

	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℃～ +85℃					
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	√	√	√	——	——	——

DIN-RAIL LOGGER

GPRS / WiFi / Ethernet

Standard DIN-Rail Mount
Suitable for 35mm DIN-Rail mount.

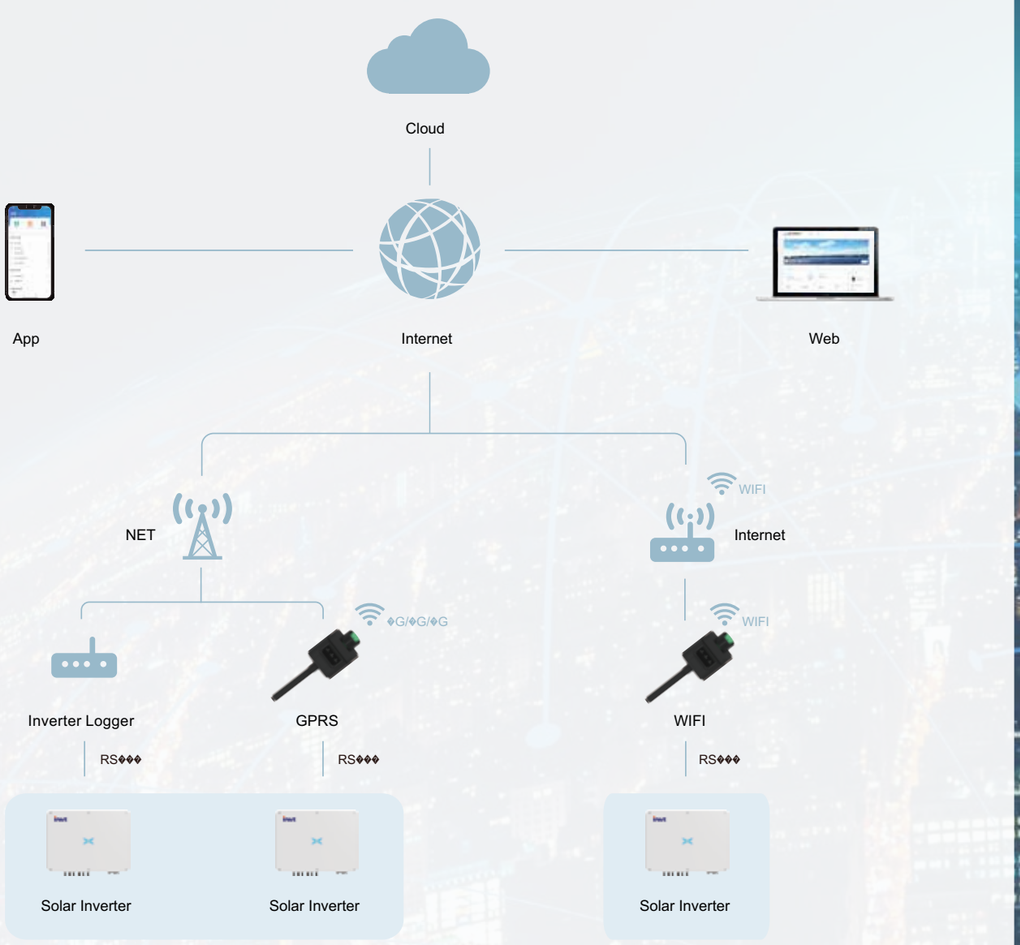
Data Resuming
Ensure data integrity.

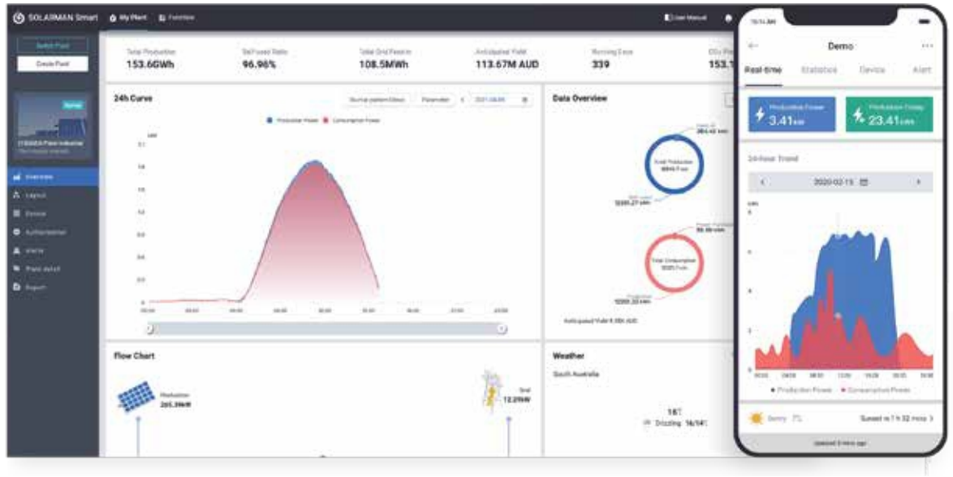
Remote Upgrade
Remote upgrade and system debugging, easy for O&M.

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℃ ~ +85℃
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

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 ♦ min
- Timely Alert Report
- Intuitive System Layout
- Flexible Plant Management

For Business

For Home

RESIDENTIAL CASE

◆◆kW Solar System in Romania
(XG◆◆KTR)

◆◆kW Solar System in Malaysia
(XG◆◆KTR)

◆◆kW Solar System in Jiangxi, China
(XG◆◆KTR)

◆◆kW Solar System in Slovakia
(XG◆◆KTR)

◆◆kW Solar System in Israel
(XG◆◆KTR)

◆kW Solar System in Finland
(XG◆KTR)

◆◆kW Solar System in Malaysia
(XG◆◆KTR)

◆◆kW Solar System in Armenia
(XG◆◆KTR)

◆◆kW Solar System in Serbia
(XG◆◆KTR)

COMMERCIAL CASE

COMMERCIAL CASE

◆◆◆kW Rooftop PV Plant in Shanxi, China
(XG◆◆◆KTR)

◆◆◆kW Rooftop PV Plant in Slovakia
(XG◆◆KTR XG◆◆KTR)

◆◆.◆◆MW Rooftop PV Plant in Hubei, China
(XG◆◆◆KTR-X)

◆◆◆kW Rooftop PV Plant in Slovakia
(XG◆◆KTR XG◆◆KTR)

◆.◆MW Rooftop PV Plant in Guangdong, China
(XG◆◆◆KTR-X)

◆◆◆kW Rooftop PV Plant in Lebanon
(XG◆◆KTR)

◆.◆◆MW ENOVATE Motors EV Manufacturing Base PV Plant in Changsha, China
(XG◆◆◆KTR,XG◆◆KTR)

◆◆◆kW Rooftop PV Plant in Zhejiang, China
(XG◆◆◆KTR, XG◆◆KTR, XG◆◆KTR)

◆.◆◆◆MW Rooftop PV Plant in Hubei, China
(XG◆◆◆KTR ,XG◆◆KTR)

◆MW Rooftop PV Plant in Türkiye
(XG◆◆◆KTR)

◆◆.◆MW Rooftop PV Plant in Hebei, China
(XG◆◆◆KTR ,XG◆◆KTR)

◆.◆MW Rooftop PV Plant in Guangdong, China
(XG◆◆◆KTR,XG◆◆KTR)