



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	60V									
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.



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XD3-6KTL

Single Phase Hybrid Inverter

Residential



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
- Supports multiple units in 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					
Efficiency						
Max. Efficiency	97.50%					
EU Efficiency	97.20%					
Battery Charge / Discharge Efficiency	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)	481 x 390 x 200 mm					
Weight	21.35 kg					
Operating Temperature Range	-30°C ~ +60°C					
Cooling Method	Natural					
Protection Degree	IP66					
Max. Operating Altitude	4000m					
Relative Humidity	0~100%					
Self-consumption	< 10W					
Topology	High Frequency Insolation (For battery)					



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 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

	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.ShortCircuitCurrentperMPPT	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 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.



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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 190 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										



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
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 \pm 5%
Surge Power	6400VA
Overload Capability	5s@ \geq 150% load; 10s@110%~150% load
Efficiency (Peak)	94%
Transfer Time	10ms (for personal computers); 20ms (for home appliances)
Waveform	Pure Sine Wave
Battery	
Battery Nominal Voltage	24Vdc
Floating 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 Temperature Protection, 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)



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	
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	
Efficiency (Peak)	94%	
Transfer Time	10ms (for personal computers); 20ms (for home appliances)	
Waveform	Pure Sine Wave	
Battery		
Battery Nominal Voltage	48Vdc	
Floating 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

XD7-10KTL

Single Phase Hybrid Inverter

Residential



Efficient Higher Revenue

- Max. Efficiency 98%
- 2 MPP Trackers, 160% DC Input Oversizing
- Max. PV Input Current 20A, Compatible with High Power Modules
- 200% Peak Output Power at EPS Mode

Intelligent Simple O&M

- IP66 Protection Degree
- SPD Type II: DC & AC
- Support AFCI Function (Optional)
- Support Smart I-V Curve Diagnosis Function

Flexible Abundant Configuration

- EPS Switching Time <10ms
- Compatible With Lithium & Lead-acid Battery
- Support Work in Parallel Mode
- Support Diesel generator & Smart Load Connection

	XD7KTL	XD8KTL	XD10KTL
Input (PV)			
Max. PV Input Power	10.5kW	12kW	15kW
Max. PV Input Voltage		600V	
Start-up Voltage		100V	
MPPT Voltage Range		100V ~ 550V	
Number of MPP Trackers		2	
Number of Strings per MPPT		2 / 1	
Max. PV Input Current		40A / 20A	
Output (AC)			
Rated Output Power	7kW	8kW	10kW
Max. Output Active Power	7.7kW	8.8kW	11kW
Max. Output Current	35A	40A	50A
Rated Voltage		230V	
Rated Frequency		50Hz / 60Hz	
THDi(@Rated Power)		< 3%	
Power Factor		0.8 leading ~ 0.8 lagging	
Battery			
Battery Type		Lithium, Lead-acid	
Battery Voltage Range		40V ~ 60V	
Max. Charge/Discharge Current	175A	190A	210A
Output (EPS)			
Max. Output Power	7.7kVA	8.8kVA	11kVA
Max. Output Current	35A	40A	50A
Peak Output Power, Time	14kW,10s	16kW,10s	18kW,10s
Rated Voltage		230V	
THDv(@Rated Power)		< 3%	
Switch Time		< 10ms	
Efficiency			
Max. Efficiency		98.00%	
European Efficiency		97.50%	
Battery Charge / Discharge Efficiency		97.00%	
Protection			
DC Reverse Polarity Protection		Yes	
Insulation Resistance Monitoring		Yes	
Ground Fault Monitoring		Yes	
Over Current / Over Voltage Protection		Yes	
Battery Soft Start Protection		Yes	
AFCI Protection		Optional	
Surge Protection		Type II	
Communication			
Display		LCD	
Communication		RS485 / CAN / WIFI / 4G / Bluetooth	
General Data			
Dimension (W x H x D)		440 x 534 x 240mm	
Weight		32 kg	
Operating Temperature Range		-30°C ~ +60°C	
Self-consumption		< 10W	
Topology		High Frequency Insolation (For Battery)	
Protection Degree		IP66	
Relative Humidity		0~100%	
Max. Operating Altitude		4000m	
Cooling Method		Smart Forced Air Cooling	

XD5-12KTR

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
- Support 100% unbalanced output

	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	120V ~ 600V				
Max. Charge / Discharge Current	50A				
Communication	CAN				
Efficiency					
Max. Efficiency				98.20%	98.40%
European Efficiency				97.60%	97.80%
Battery Charge / Discharge Efficiency				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 232 mm				
Weight	27kg				
Operating Temperature Range	-30°C ~ +60°C				
Cooling Method	Natural				
Protection Degree	IP66				
Max. Operating Altitude	4000 m				
Relative Humidity	0~100%				
Self-consumption	< 10W				
Topology	Transformerless				



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 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			



XG30-40KTR

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 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)			
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	4000 m			
Relative Humidity	0 ~ 100%			
Topology	Transformerless			
Night Power Consumption	< 1 W			

XD30-60KTR

Three Phase Hybrid Inverter



Efficient Higher Revenue

- 4 MPP Trackers, 150% DC input oversizing
- Max. PV input current 20A, compatible with high power PV modules
- Max. charge/discharge current 200A, 150% EPS peak output power

Intelligent Simple O&M

- IP66 protection
- DC&AC Type II SPD: prevent lightning damage
- Smart I-V curve diagnosis function: locate PV string faults accurately and automatically detect faults

Flexible Abundant Configuration

- Support optional AFCI function
- EPS switching under 10ms
- Support multi-inverters in parallel
- Support 100% unbalanced output
- Standard generator interface, support for generator and smart load access

	XD30KTR	XD40KTR	XD50KTR	XD60KTR
Input (PV)				
Max. Input Power	48000Wp	64000Wp	80000Wp	96000Wp
Max. Input Voltage			1100V	
Start-up Voltage			200V	
Rated Voltage			620V	
MPPT Voltage Range			180V-1000V	
Number of MPP Trackers			4	
Number of String per MPPT			8	
Max. Current per MPPT			4*40A	
Max. Short Circuit Current per MPPT			4*60A	
Output (On-Grid)				
Rated Output Power	30kW	40 kW	50 kW	60 kW
Max. Output Power	33kVA	44 kVA	55 kVA	66 kVA
Max. Output Current	50A	66.7 A	83.4 A	100 A
Max. Input Power from Grid	45kW	60 kW	75 kW	90 kW
Max. Input Current from Grid	68.4A	91 A	113.7A	136.4A
Rated Grid Voltage			3 / N / PE, 230 V / 400 Vac	
Rated Grid Frequency			50Hz / 60Hz	
THDi(@Rated Power)			<3%	
Power Factor			0.8 leading ~ 0.8 lagging	
Battery				
Battery Type			Lithium	
Battery Voltage Range			300V - 850V	
Max. Charge / Discharge Power		44kW	55kW	66kW
Max. Charge / Discharge Current			2*100A	
Communication			CAN / RS485	
Output (EPS)				
Rated Output Power	30kW	40kW	50kW	60kW
Max. Output Current	45.6A	60.7 A	75.8 A	91 A
Peak Output Power, Time			1.5 times / 10s	
Switch Time			<10ms	
Rated Voltage			3 / N / PE, 230V / 400Vac	
Rated Frequency			50Hz / 60Hz	
Max. AC passthrough current			150A	
Output (Generator)				
Max. Output Power	30kW	40kW	50kW	60kW
Max. Output Current	45.6A	60.7A	75.8A	91 A
Rated Voltage			3 / N / PE, 230V / 400Vac	
Rated Frequency			50Hz / 60Hz	
Efficiency				
Max. Efficiency			98.40%	
European Efficiency			97.50%	
Battery Charge / Discharge Efficiency			97.50%	
Protection				
Protection	DC Switch, DC Reverse Polarity Protection, Anti-islanding Protection, AC Short Circuit Protection, Residual Current Monitoring, Ground Fault Monitoring, Over Current /Voltage Protection, Battery Active Function, I-V Curve Scan			
Surge Protection	Type II			
AFCI Protection	Optional			
General Data				
Display	LCD / LED			
Weight	92kg			
Dimension (W x H x D)	620 x 900 x 300 mm			
Operating Temperature Range	-30 ~ +60°C			
Cooling Method	Smart Cooling			
Protection Degree	IP66			
Max. Operating Altitude	4000m			
Relative Humidity	0~100%			
Self-consumption	<15W			
Topology	Transformerless			



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					



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			

GRP2.56-SHV

High Voltage Stackable Battery



Easy Install

- Modular Design, simplifies transport and installation



Wide TEMP

- Excellent temperature performance, temperature of discharge @-20°C ~ +60°C



Reliable

- LFP Battery: Maximum Safety, Life Cycle and Power



Flexible

- High-voltage LiFePO₄ battery solution, Single module is 51.2V 50Ah 2.56kWh, 3 to 10 layers recommended

	GRP2.56-S3HV	GRP2.56-S4HV	GRP2.56-S5HV	GRP2.56-S6HV	GRP2.56-S7HV	GRP2.56-S8HV	GRP2.56-S9HV	GRP2.56-S10HV
Battery Parameter								
Battery Cell	LiFePO ₄							
Battery System Capacity	7.68kWh	10.24kWh	12.8kWh	15.36kWh	17.92kWh	20.48kWh	23.04kWh	25.6kWh
Module number	3	4	5	6	7	8	9	10
Nominal Capacity	50Ah							
Depth of Discharge	90%							
Nominal Voltage	153.6V	204.8V	256V	307.2V	358.4V	409.6V	460.8V	512V
Voltage Range	129.6 ~ 168.48Vdc	172.8~224.64Vdc	216~280.8Vdc	259.2~336.96Vdc	302.4~393.12Vdc	345.6~449.28Vdc	388.8~505.44Vdc	432~561.6Vdc
Nominal Charge/ Discharge Current	50A							
Dimension (W x H x D)	600 x 820 x 210 mm	600 x 980 x 210 mm	600 x 1140 x 210 mm	600 x 1300 x 210 mm	600 x 1460 x 210 mm	600 x 1620 x 210 mm	600 x 1780 x 210 mm	600 x 1940 x 210 mm
Weight	102.5kg	129kg	155.5kg	182kg	208.5kg	235kg	261.5kg	288kg
Installation	Stacked							
Temperature of Charge	0~55°C							
Temperature of Discharge	-20°C ~+60°C							
Protection Degree	IP65							
Communication Port	RS485, CAN							
Display	LED							
Operation Humidity	5~95%							
Max. Operating Altitude	2000m							
Cycle Life	6000@80% DOD,25°C ,0.5C							
Certification	CE, CB, UN38.3, MSDS							

GRP5.12-WLV

Low Voltage Wall-mounted Battery



Easy Install

- Easy installation, plug and play design



Flexible

- Flexible capacity, Max.15pcs in parallel to extend capacity



Reliable

- Safe & reliable, Lithium Iron Phosphate (LFP) Cell



Smart O&M

- LED Display, SOC, Battery state

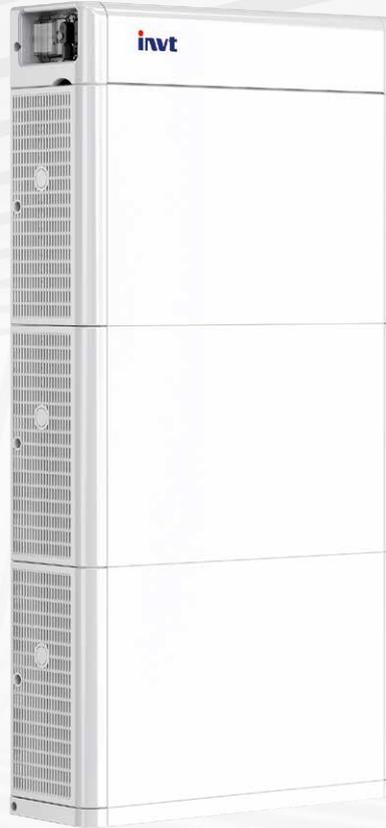
GRP5.12-WLV

Battery Parameter

Battery Cell	LiFePO ₄
Battery Energy	5120Wh
Nominal Capacity	100Ah
Depth of Discharge	80%
Nominal Voltage	51.2V
Voltage Range	43.2Vdc ~ 56.6Vdc
Nominal Charge / Discharge Current	50A
Max. Charge/Discharge Current	100A
Dimension (W x H x D)	520 x 470 x 141.5 mm
Weight	47.2kg
Installation	Wall-mounted / Floor-standing
Temperature of Charge	0 ~ 55°C
Temperature of Discharge	-20°C ~ +60°C
Protection Degree	IP65
Parallel Units	Up to 15
Communication Port	RS485, CAN
Display	LED
Operation Humidity	5% ~ 95%
Max. Operating Altitude	2000m
Cycle Life	6000@80% DOD, 25°C, 0.5C
Certification	CE, IEC, UN38.3, MSDS

GRP5.12-SLV

Low Voltage Stackable Battery



Easy Install

- Modular design, simplifies transport and installation



Wide TEMP

- Excellent temperature performance, temperature of discharge @-20°C ~ +60°C



Reliable

- Cobalt Free Lithium Iron Phosphate (LFP) Battery: maximum safety and life cycle



Flexible

- Capable of high-powered emergency-backup and Off-Grid function

	GRP5.12-S2LV	GRP5.12-S3LV	GRP5.12-S4LV
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Battery Parameter

Battery Cell	LiFePO ₄		
Battery System Capacity	10.24kWh	15.36kWh	20.48kWh
Module Number	2	3	4
Nominal Capacity	200Ah	300Ah	400Ah
Depth of Discharge	80%		
Nominal Voltage	51.2V		
Voltage Range	43.2Vdc ~ 56.16Vdc		
Nominal Charge / Discharge Current	100A		
Dimension (W x H x D)	640 x 890 x 200 mm	640 x 1255 x 200 mm	640 x 1620 x 200 mm
Weight	119kg	167kg	215kg
Installation	Stacked		
Temperature of Charge	0 ~ 55°C		
Temperature of Discharge	-20°C ~ +60°C		
Protection Degree	IP65		
Communication Port	RS485, CAN		
Display	LED		
Operation Humidity	5% ~ 95%		
Max. Operating Altitude	2000m		
Cycle Life	6000@80% DOD, 25°C, 0.5C		
Certification	CE, IEC, UN38.3, MSDS		