



String INVERTERS

Single Phase 1kW - 10kW and
Three Phase 5kW - 350kW



1-6kW
Single Phase



8-10kW
Single Phase



5-15kW
Three Phase



17-25kW
Three Phase



30-50kW
Three Phase



80-350kW
Three Phase

ABOUT ROTOMAG

Inverter Manufacturing Plant



BLDC & DC Motor Manufacturing Plant



Solar Pump Manufacturing Plant

The Rotomag Group is globally recognized for the manufacture of high performance motors, gearboxes, solar pumps, controllers & inverters. Rotomag, the flagship company manufactures DC Motors and gearboxes. Rotosol, a division of Rotomag manufactures Solar Pumps, Controllers and Inverters.

Rotomotive Powerdrives in collaboration with Motive, Italy manufactures AC motors and Gearboxes. Rotodrive, a division of Rotomotive manufactures drives for EVs.

MANUFACTURING

Our world class manufacturing facilities are spread among 3 units in an area of over 1.6 lakh sq. ft. with a dedicated plant for controller and inverter manufacturing.

State of the art R&D and QA ensures that every new product that is developed exceeds international standards of performance and quality.



ISO 9001:2015



ISO 14001:2015



OHSAS 18001:2007



R- 72003166



R- 72003166



PROPOSED DEALER & SUPPORT NETWORK

Inverter FEATURES

Supports 1.5 times
input power overload



Fanless design (upto 13kW)
Noise <40 dB

Battery Ready

Easily convertible to
Hybrid Inverter with
Lead-Acid / Li-ion battery
(for single phase
Inverters only)



Intelligent
temperature control and
other protections



THD < 3%



MPPT efficiency > 99.9%

Active power factor
adjustment



DC and AC lightning
protection function (Type II)



1-6kW

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 RS/WiFi/4G: 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



Battery Ready

- Support upgrade to Hybrid single phase inverter feature
- Support low voltage hybrid system by firmware update by OTA
- Compatible with different battery system

Specifications



	1 KTL-S	1.5 KTL-S	2KTL-S	2.5KTL-S	3KTL-S	3.68KTL-S	4KTL-S	4.2KTL-S	4.6KTL-S	5KTL-S	6KTL-S
Input (DC)											
Max. Input Power	1.5.kW	2.25kW	3kW	3.75kW	4.5kW	5.52kW	6kW	6.3kW	6.9kW	7.5kW	9kW
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	27A
Rated Output Power	1kW	1.5kW	2kW	2.5kW	3kW	3.68kW	4kW	4.2kW	4.6kW	5kW ^d	6kW
Max. Output Power	1.1kVA	1.65kVA	2.2kVA	2.75kVA	3.3kVA	3.68kVA	4.4kVA	4.62kVA	5kVA ^b	5kVA ^c	6.67kVA
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 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 -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 5 KTL-S is 4999W.
- b: For VDE-AR-N4105, Max. Output Power of 4.6KTL-S is 4600VA. For AS4777, Max. Output Power of 4.6KTL-S is 4999VA.
- c: For AS4777, Max. Output Power of 5KTL-S is 4999VA.
- d: For AS4777, Max. Output Current of 4.6KTL-S and 5KTL-S is 21.7A.

8-10kW

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 module



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

Specifications



	8KTL1	10KTL1
Input (DC)		
Max. Input Power	12kW	15kW
Max. Input Voltage	600V	
Start Voltage	80V	
Rated Input Voltage	360V	
Full Load MPPT Voltage Range	250V ~ 480V	290V ~ 480V
MPPT Voltage Range	80V ~ 560V	
Number of MPP Trackers	2	
Number of String per MPPT	1/1	
Max. Current per MPPT	20A	
Max. Short Circuit Current per MPPT	26A	
Output (AC)		
Max. Output Current	40A	45.5A
Rated Output Power	8kW	10kW
Max. Output Power	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%	
European Efficiency	97.30%	
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	RS485 / WiFi / 4G	
Standard Compliance		
	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 3800 x 160 mm	
Weight	13kg	
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	

5-15kW

Three Phase Residential Solar Inverter



High Yield & Efficiency

- Max. Efficiency of inverter is up to 98.6%;
- SiC power components to increase power generation;
- 150% PV array oversizing, 110% AC output overloading, 16A input current per string to compatible with bifacial and large PV modules;
- Low start-up voltage and wide MPP voltage for more power generation time;



Aesthetic & Compact

- Screw free cover design, Integrated molding box without welding, good aesthetic & product stability and consistency;
- Light weight, small volume and compact size;
- Aluminum die casting shell with reinforcing bars, 3 layer effective waterproof design, to resist harsh environment;
- Fanless design, natural heat dissipation, low noise;



Safe & Reliable

- Type II AC & DC Surge Protection;
- Adapt film bus capacitors to improve reliability of system;
- IP66 protection rating, C5 anti-corrosion rating, high environmental adaptability system Integration;
- Supports AFCI Protection, preventing sparking or arcing that may potentially cause an electrical fire;
- Built in RS485, supports WiFi and 4G, Firmware update remotely or by USB interface;
- LED indicators for different status, LCD display for realtime data read;



Smart Management

- Support intelligent automatic I-V curve scanning for fault diagnosis, precise positioning of the abnormal string;
- Free online real-time monitoring of system power generation and energy management for end user, installer and retailer;

Specifications



MODEL	5KRG-W	6KRG-W	7KRG-W	8KRG-W	9KRG-W	10KRG-W	11KRG-W	12KRG-W	13KRG-W	15KRG-W
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Input Data (DC)

Max. Input Power	7.5 kW	9 kW	10.5 kW	12 kW	13.5 kW	15 kW	16.5 kW	18 kW	19.5 kW	22.5 kW
Max. DC Voltage	1100 V									
Start-up Voltage	180 V									
Nominal Voltage	600 V									
MPPT Voltage Range	140~1000 V									
No. of MPP Trackers	2									
No. of PV Strings per MPP Tracker	1 / 1					1 / 2				
Max. Input Current per MPP Tracker	16A / 16A					16A / 32A				
Max. Input Short-circuit Current per MPPT	20A / 20 A					20A / 40 A				

Output Data (AC)

Nominal Output Power	5 kW	6 kW	7 kW	8 kW	9 kW	10 kW	11 kW	12 kW	13 kW	15 kW
Max. AC Apparent Power	5.5 kVA	6.6 kVA	7.7 kVA	8.8 kVA	9.9 kVA	11 kVA	12.1 kVA	13.2 kVA	14.3 kVA	16.5 kVA
Nominal AC Voltage	230/400 V, 3L/N/PE									
AC Grid Frequency	50/60 Hz									
Frequency Range	(45-55)/(55-65) Hz									
Max. Output Current (PF=0.9)	8.0 A	9.6 A	11.2 A	12.8 A	14.3 A	15.9 A	17.5 A	19.1 A	20.7 A	23.9 A
Power Factor	>0.99									
Adjustable Power Factor Range	0.8leading...0.8lagging									
Max. Total Harmonic Distortion	<3% [Rated Power]									

Efficiency

Max. Efficiency	98.4%					98.5%					98.6%
European Efficiency	97.5%					98.0%					98.1%
MPPT Efficiency	99.9%										

Protection

Anti-flow Protection	Optional									
DC Reverse Polarity Protection	Yes									
DC Switch	Yes									
DC Surge Protection	Type II									
Insulation Resistance Monitoring	Yes									
Residual-current Monitoring Unit (GFCI)	Yes									
AC Short-circuit Protection	Yes									
AC Surge Protection	Type II									
Grid Monitoring	Yes									
Anti-islanding Protection	Yes									
String Fault Monitoring	/					Optional				
AFCI Protection	Optional									

General Data

Dimensions (W×H×D)	440×370×140 mm					440×370×186 mm					440×370×186 mm
Weight	13 kg					16 kg					17 kg
Operating Temperature Range	-25°C~+60°C (>45°C derating)										
Relative Humidity	0~100%										
Altitude	4000 m (>2000 m derating)										
Self-consumption at Night	<1 W										
Topology	Transformerless										
Cooling	Natural convection									Intelligent Air Cooling	
Protection Rating	IP66										
Guarantee Period	5 Years / 10 Years (Optional)										
Display	LED & LCD										
Communication	Yes: RS485/USB, Optional: 4G/WiFi										

Standards Compliance

Grid Connection	NB/T 32004, G98/G99, VDE 0126/4105/0124, EN 50549-1/2, CEI0-21/CEI0-16, AS 4777.2, IEC 61727/62116, PEA, MEA, RD1699/661/413/244/2019, UNE 206006/206007, NTS Type A, UNE 217002/217001									
Safety Standards	IEC 62109-1/2									
Others	EN 61000-6-1/2/3/4, IEC 61683, IEC 60068 (1, 2, 14, 30)									

17-25kW

Three Phase Residential Solar Inverter



High Yield & Efficiency

- SiC power components to increase power generation;
- 150% PV array oversizing, 110% AC output overloading, 16A input current per string to compatible with bifacial and large PV modules;
- Intergrated anti-PID (Potential Induced Degradation) functions, Significantly reduce the negative effect of PID;
- Low start-up voltage and wide MPP voltage for more power generation time;



Aesthetic & Compact

- Screw free cover design, Integrated molding box without welding, good aesthetic & product stability and consistency;
- Light weight, small volume and compact size;
- Aluminum die casting shell with reinforcing bars, 3 layer effective waterproof design, to resist harsh environment;



Safe & Reliable

- Type II AC & DC Surge Protection;
- Adapt film bus capacitors to improve reliability of system;
- IP66 protection rating, C5 anti-corrosion rating, high environmental adaptability system Integration;
- Supports AFCI Protection, preventing sparking or arcing that may potentially cause an electrical fire;
- Built in RS485, supports WiFi and 4G, Firmware update remotely or by USB interface;
- LED indicators for different status, LCD display for realtime data read;



Smart Management

- Support intelligent automatic I-V curve scanning for fault diagnosis, precise positioning of the abnormal string;
- Free online real-time monitoring of system power generation and energy management for end user, installer and retailer;

Specifications



Model	17KRG-W	20KRG-W	22KRG-W	25KRG-W
Input Data [DC]				
Max. Input Power	25.5 kW	30 kW	33 kW	37.5 kW
Max. DC Voltage	1100 V			
Start-up Voltage	180 V			
Nominal Voltage	600 V			
MPPT Voltage Range	160-1000 V			
No. of MPP Trackers	2			
No. of PV Strings per MPP Tracker	2			
Max. Input Current per MPP Tracker	32 A			
Max. Input Short-circuit Current per MPPT	40 A			
Output Data [AC]				
Nominal Output Power	17 kW	20 kW	22 kW	25 kW
Max. AC Apparent Power	18.7 kVA	22 kVA	24.2 kVA	27.5 kVA
Nominal AC Voltage	230/400 V, 3L/N/PE or 3L/PE			
AC Grid Frequency	50/60 Hz			
Frequency Range	(45-55)/(55-65) Hz			
Max. Output Current (PF=0.9)	28.4 A	33.4 A	36.8 A	41.8 A
Power Factor	> 0.99			
Adjustable Power Factor Range	0.8 leading...0.8 lagging			
Max. Total Harmonic Distortion	<3% [Rated Power]			
Efficiency				
Max. Efficiency	98.5%			
European Efficiency	98.0%			
MPPT Efficiency	99.9%			
Protection				
Anti-flow Protection	Yes			
DC Reverse Polarity Protection	Yes			
DC Switch	Yes			
DC Surge Protection	Type II			
Insulation Resistance Monitoring	Yes			
Residual-current Monitoring Unit (GFCI)	Yes			
AC Short-circuit Protection	Yes			
AC Surge Protection	Type II			
Grid Monitoring	Yes			
Anti-islanding Protection	Yes			
Anti-PID Function	Yes			
AFCI Protection	Optional			
General Data				
Dimensions (W×H×D)	520 x 420 x 242 mm			
Weight	27 kg			
Operating Temperature Range	-25°C~+60°C (> 45°C derating)			
Relative Humidity	0~100%			
Altitude	4000 m (> 2000 m derating)			
Self-consumption at Night	<1 W			
Topology	Transformerless			
Cooling	Intelligent Air Cooling			
Protection Degree	IP66			
Guarantee Period	5 Years / 10 Years [Optional]			
Display	LED & LCD			
Communication	Yes: RS485/USB, Optional: 4G/WiFi			
Standards Compliance				
Grid Connection	NB/T 32004, G98/G99, VDE 0126/4105/0124, EN 50549-1/2, CEI0-21/CEI0-16, AS 4777.2, IEC 61727/62116, PEA, MEA, RD1699/661/413/244/2019, UNE 206006/206007, NTS Type A, UNE 217002/217001			
Safety Standards	IEC 62109-1/2			
Others	EN 61000-6-1/2/3/4, IEC 61683, IEC 60068 [1, 2, 14, 30]			

30-50kW

C&I Solar Inverter



High Yield & Efficiency

- SiC power components to increase power generation;
- 150% PV array oversizing, 110% AC output overloading, 16A input current per string to compatible with bifacial and large PV modules;
- Intergrated anti-PID (Potential Induced Degradation) functions, Significantly reduce the negative effect of PID;
- Low start-up voltage and wide MPP voltage for more power generation time;



Aesthetic & Compact

- Screw free cover design, Integrated molding box without welding, good aesthetic & product stability and consistency;
- Light weight, small volume and compact size;
- Aluminum die casting shell with reinforcing bars, 3 layer effective waterproof design, to resist harsh environment;



Safe & Reliable

- Type II AC & DC Surge Protection;
- Adapt film bus capacitors to improve reliability of system;
- IP66 protection rating, C5 anti-corrosion rating, high environmental adaptability system Integration;
- Supports AFCI Protection, preventing sparking or arcing that may potentially cause an electrical fire;
- Built in RS485, supports WiFi and 4G, Firmware update remotely or by USB interface;
- LED indicators for different status, LCD display for realtime data read;



Smart Management

- Support intelligent automatic I-V curve scanning for fault diagnosis, precise positioning of the abnormal string;
- Free online real-time monitoring of system power generation and energy management for end user, installer and retailer;

Specifications



Model	30KRG-W	33KRG-W	36KRG-W	40KRG-W	50KRG-W
Input Data (DC)					
Max. Input Power	45 kW	49.5 kW	54 kW	60 kW	75 kW
Max. DC Voltage	1100 V				
Start-up Voltage	180 V				
Nominal Voltage	600 V				
MPPT Voltage Range	200-1000 V				
No. of MPP Trackers	3	3	3	4	4
No. of PV Strings per MPP Tracker	2				
Max. Input Current per MPP Tracker	32 A				
Max. Input Short-circuit Current per MPPT	40 A				
Output Data (AC)					
Nominal Output Power	30 kW	33 kW	36 kW	40 kW	50 kW
Max. AC Apparent Power	33 kVA	36 kVA	39.6 kVA	44 kVA	55 kVA
Nominal AC Voltage	230/400 V, 3L/N/PE or 3L/PE				
AC Grid Frequency	50/60 Hz				
Frequency Range	[45-55]/[55-65] Hz				
Max. Output Current (PF=0.9)	48.3 A	54.5 A	60 A	66.7 A	84.1 A
Power Factor	> 0.99				
Adjustable Power Factor Range	0.8 leading...0.8 lagging				
Max. Total Harmonic Distortion	<3% [Rated Power]				
Efficiency					
Max. Efficiency	98.4%				
European Efficiency	98.2%				
MPPT Efficiency	99.9%				
Protection					
Anti-flow Protection	Optional				
DC Reverse Polarity Protection	Yes				
DC Switch	Yes				
DC Surge Protection	Type II				
Insulation Resistance Monitoring	Yes				
Residual-current Monitoring Unit (GFCI)	Yes				
AC Short-circuit Protection	Yes				
AC Surge Protection	Type II				
Grid Monitoring	Yes				
Anti-islanding Protection	Yes				
String Fault Monitoring	Yes				
AFCI Protection	Optional				
General Data					
Dimensions (W×H×D)	590 x 480 x 237 mm				
Weight	32 kg	32 kg	32 kg	34 kg	35 kg
Operating Temperature Range	-25°C~+60°C [45°C derating]				
Relative Humidity	0~100%				
Altitude	4000 m [>2000 m derating]				
Self-consumption at Night	<1 W				
Topology	Transformerless				
Cooling	Intelligent Air Cooling				
Protection Rating	IP66				
Guarantee Period	5 Years / 10 Years [Optional]				
Display	LED & LCD				
Communication	Yes: RS485/USB, Optional: 4G/WiFi				
Standards Compliance					
Grid Connection	NB/T 32004, G98/G99, VDE 0126/4105/0124, EN 50549-1/2, CEI0-21/CEI0-16, AS 4777.2, IEC 61727/62116, PEA, MEA, RD1699/661/413/244/2019, UNE 206006/206007, NTS Type A&B, UNE 217002/217001				
Safety Standards	IEC 62109-1/2				
Others	EN 61000-6-1/2/3/4, IEC 61683, IEC 60068 [1, 2, 14, 30]				

80-110kW

C&I Solar Inverter



High Yield

- 9 MPPT to achieve maximum power output for complex application scenarios;
- SiC power components to increase power generation;
- 150% PV array oversizing, 110% AC output overloading, 16A input current per string to compatible with bifacial and large PV modules;
- Intergrated anti-PID (Potential Induced Degradation) functions, Significantly reduce the negative effect of PID;
- Low start-up voltage and wide MPP voltage for more power generation time;



User-friendly

- Independent AC terminal box design, save 30% installation time;
- Firmware update remotely or by USB interface;
- Online monitoring by slenergy Smart M app. via RS485/USB/Bluetooth, supports 4G/WiFi;
- Quick & Easy-to-install with basic tools, LED indicators for different status;



Safe & Reliable

- Aluminum die casting shell with reinforcing bars, 3 layer effective waterproof design, to resist harsh environment;
- Adapt film bus capacitors to improve reliability of system;
- Type II AC & DC Surge Protection;
- IP66 protection rating, C5 anti-corrosion rating, high environmental adaptability system Integration;
- Supports AFCI Protection, preventing sparking or arcing that may potentially cause an electrical fire;



Smart Management

- Support intelligent automatic I-V curve scanning for fault diagnosis, precise positioning of the abnormal string;
- Free online real-time monitoring of system power generation and energy management for end user, installer and retailer;

Specifications



Model	80KRG-W	100KRG-W	110KRG-W
Input Data [DC]			
Max. Input Power	120 kW	150 kW	165 kW
Max. DC Voltage		1100 V	
Start-up Voltage		180 V	
Nominal Voltage		600 V	
MPPT Voltage Range		200-1000 V	
No. of MPP Trackers		9	
No. of PV Strings per MPP Tracker		2	
Max. Input Current per MPP Tracker		32 A	
Max. Input Short-circuit Current per MPPT		40 A	
Output Data [AC]			
Nominal Output Power	80 kW	100 kW	110 kW
Max. AC Apparent Power	89 kVA	110 kVA	121 kVA
Nominal AC Voltage		3L/N/PE, 220 V / 380 V, 230 V / 400 V	
AC Grid Frequency		50/60 Hz	
Frequency Range		[45-55]/[55-65] Hz	
Max. Output Current (PF=0.9)	133.3 A	166.7 A	175 A
Power Factor		> 0.99 [Rated]	
Adjustable Power Factor Range		0.8 leading...0.8 lagging	
Max. Total Harmonic Distortion		<3% [Rated Power]	
Efficiency			
Max. Efficiency		98.5%	
European Efficiency		98.1%	
MPPT Efficiency		99.9%	
Protection			
Anti-flow Protection		Optional	
DC Reverse Polarity Protection		Yes	
DC Switch		Yes	
DC Surge Protection		Type II	
Insulation Resistance Monitoring		Yes	
Residual-current Monitoring Unit (GFCI)		Yes	
AC Short-circuit Protection		Yes	
AC Surge Protection		Type II	
Grid Monitoring		Yes	
Anti-islanding Protection		Yes	
String Fault Monitoring		Yes	
AFCI Protection		Optional	
General Data			
Dimensions (W×H×D)		1040 x 700 x 350 mm	
Weight		88 kg	
Operating Temperature Range		-25°C~+60°C [> 45°C derating]	
Relative Humidity		0~100%	
Altitude		4000 m [> 3000 m derating]	
Self-consumption at Night		<4 W	
Topology		Transformerless	
Cooling		Intelligent Air Cooling	
Protection Rating		IP66	
Guarantee Period		5 Years / 10 Years [Optional]	
Display		LED	
Communication		Yes: RS485/USB/Bluetooth, Optional: 4G/WiFi	
Standards Compliance			
Grid Connection		NB/T 32004, G98/G99, VDE 0126/4105/0124, EN 50549-1/2, CEI0-21/CEI0-16, AS 4777.2, IEC 61727/62116, PEA, MEA, RD1699/661/413/244/2019, UNE 206006/206007, NTS Type B, UNE 217002/217001	
Safety Standards		EN/IEC 62109-1/2	
Others		EN/IEC 61000-6-1/2/3/4, IEC 61683, IEC 60068 [1, 2, 14, 30]	

150kW

C&I Solar Inverter (1100V)



High Yield

- Several MPPT to achieve maximum power output for complex application scenarios;
- SiC power components to increase power generation;
- 150% PV array oversizing, 110% AC output overloading, Large input current per string to compatible with 700W+ PV modules;
- Intergrated anti-PID (Potential Induced Degradation) functions, Significantly reduce the negative effect of PID;
- Low start-up voltage and wide MPP voltage for more power generation time;



User-friendly

- Independent AC terminal box design, save 30% installation time;
- Firmware update remotely or by USB interface;
- Online monitoring by slenergy Smart M app. via RS485/USB/Bluetooth, supports 4G/WiFi;
- Quick & Easy-to-install with basic tools, LED indicators for different status;



Safe & Reliable

- Aluminum die casting shell with reinforcing bars, 3 layer effective waterproof design, to resist harsh environment;
- Adapt film bus capacitors to improve reliability of system;
- Type II AC & DC Surge Protection;
- IP66 protection rating, C5 anti-corrosion rating, high environmental adaptability system Integration;
- Supports AFCI Protection, preventing sparking or arcing that may potentially cause an electrical fire;



Smart Management

- Supports intelligent automatic I-V curve scanning for fault diagnosis, precise positioning of the abnormal string;
- Free online real-time monitoring of system power generation and energy management for end user, installer and retailer;

Specifications



Model	150KRG-W
Input Data (DC)	
Max. Input Power	225 kW
Max. DC Voltage	1100 V
Start-up Voltage	200 V
Nominal Voltage	600 V
MPPT Voltage Range	180-1000 V
No. of MPP Trackers	7
No. of PV Strings per MPP Tracker	3
Max. Input Current per MPP Tracker	48 A
Max. Input short Current per MPP Tracker	66 A
Output Data (AC)	
Nominal Output Power	150 kW
Max. AC Apparent Power	165 kVA
Nominal AC Voltage	230 V/400 V, 3L/N/PE or 3L/PE
AC Grid Frequency	50/60 Hz
Frequency Range	[45-55]/[55-65] Hz
Max. Output Current (PF=0.9)	250.7 A
Power Factor	> 0.99
Adjustable Power Factor	0.8 leading...0.8 lagging
THDi	<3%
Efficiency	
Max. Efficiency	98.5%
European Efficiency	98.2%
MPPT Efficiency	99.9%
Protection	
DC Reverse Polarity Protection	Yes
DC Switch	Yes
DC Surge Protection	Type II
PID Repair	Optional
Insulation Resistance Monitoring	Yes
Residual-current Monitoring Unit	Yes
AC Short-circuit Protection	Yes
AC Surge Protection	Type II
Grid Monitoring	Yes
Anti-islanding Protection	Yes
String Fault Monitoring	Yes
AFCI Protection	Optional
General Data	
Dimensions [W×H×D]	1040 x 700 x 350 mm
Weight	85 kg
Operating Temperature Range	-25° C- +60° C [45° C derating]
Relative Humidity	0~100%
Altitude	4000m (> 3000 m derating)
Self-consumption at Night	<4 W
Topology	Transformerless
Cooling	Intelligent Air Cooling
Ingress Protection Rating	IP66
Guarantee Period	5 Years / 10 Years [Optional]
Display	LED
Communication	Yes: RS485/USB, Optional: 4G/WiFi/Bluetooth
Standards Compliance	
Grid Connection	NB/T 32004, G98/G99, VDE 0126/4105/0124, EN 50549-1/2, CEI0-21/CEI0-16, AS 4777.2, IEC 61727/62116, PEA, MEA, RD1699/661/413/244/2019, UNE 206006/206007, NTS Type B, UNE 217002/217001
Safety Standards	EN/IEC 62109-1/2
Others	EN/IEC 61000-6-1/2/3/4, IEC 61683, IEC 60068 [1, 2, 14, 30]

320-350kW

Utility Scale Solar Inverter (1500V)



High Yield

- Max. Efficiency 99.0%, European Efficiency 98.5%;
- SiC power components to increase power generation;
- 130% PV array oversizing, 110% AC output overloading, 70A input current per string to compatible with large current PV modules;
- Intergrated anti-PID (Potential Induced Degradation) functions, Significantly reduce the negative effect of PID;



User-friendly

- Independent AC terminal box design, save 30% installation time;
- Firmware update remotely or by USB interface;
- Online monitoring by slenergy Smart M app. via RS485/USB/Bluetooth, supports 4G/WiFi;
- Quick & Easy-to-install with basic tools, LED indicators for different status;



Safe & Reliable

- Aluminum die casting shell with reinforcing bars, 3 layer effective waterproof design, to resist harsh environment;
- Adapt film bus capacitors to improve reliability of system;
- Type II AC & DC Surge Protection;
- IP66 protection rating, C5 anti-corrosion rating, high environmental adaptability system Integration;
- Supports AFCI Protection, preventing sparking or arcing that may potentially cause an electrical fire;



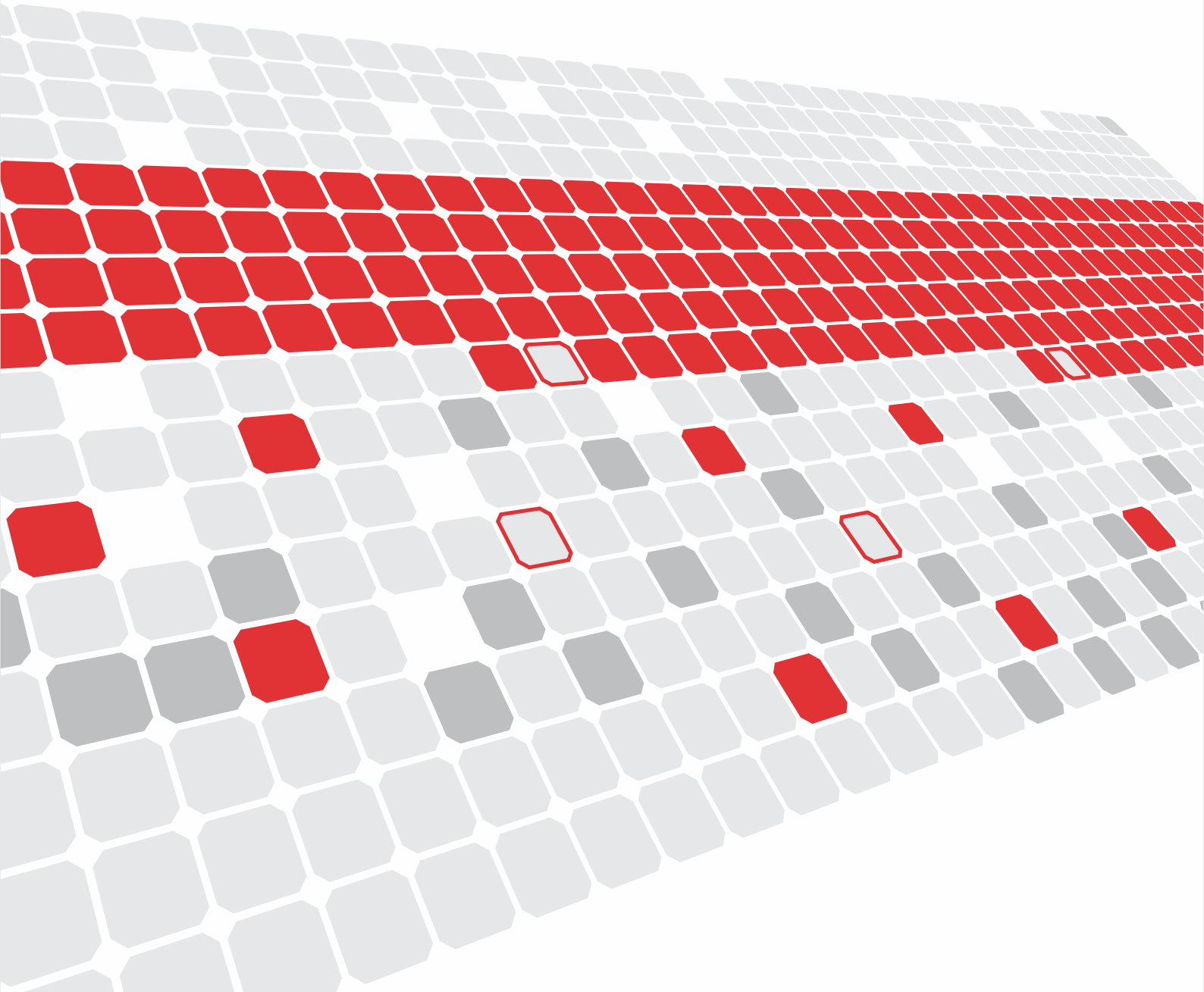
Smart Management

- Supports intelligent automatic I-V curve scanning for fault diagnosis, precise positioning of the abnormal string;
- Free online real-time monitoring of system power generation and energy management for end user, installer and retailer.

Specifications



Model	320KRM-W	350KRM-W
Input Data (DC)		
Max. Input Power	416 kW	455 kW
Max. DC Voltage	1500 V	
Start-up Voltage	550 V	
Nominal Voltage	1080 V	
MPPT Voltage Range	500-1500 V	
No. of MPP Trackers	6	
No. of PV Strings per MPP Tracker	5	
Max. Input Current per MPP Tracker	70 A	
Max. Input short Current per MPP Tracker	125 A	
Output Data (AC)		
Nominal Output Power	320 kW	350 kW
Max. AC Apparent Power	352 kVA	385 kVA
Nominal AC Voltage	460 V/800 V, 3L/PE	
AC Grid Frequency	50/60 Hz	
Frequency Range	[45-55]/[55-65] Hz	
Max. Output Current (PF=0.9)	254 A	277.8 A
Power Factor	>0.99	
Adjustable Power Factor	0.8 leading...0.8 lagging	
THDi	<3%	
Efficiency		
Max. Efficiency	99.0%	
European Efficiency	98.5%	
MPPT Efficiency	99.9%	
Protection		
DC Reverse Polarity Protection	Yes	
DC Switch	Yes	
DC Surge Protection	Type II	
PID Repair	Optional	
Insulation Resistance Monitoring	Yes	
Residual-current Monitoring Unit	Yes	
AC Short-circuit Protection	Yes	
AC Surge Protection	Type II	
Grid Monitoring	Yes	
Anti-islanding Protection	Yes	
String Fault Monitoring	Yes	
AFCI Protection	Optional	
General Data		
Dimensions (W×H×D)	1030 x 810 x 350 mm	
Weight	100 kg	
Operating Temperature Range	-25° C- +60° C [45° C derating]	
Relative Humidity	0~100%	
Altitude	4000m (> 3000 m derating)	
Self-consumption at Night	<6 W	
Topology	Transformerless	
Cooling	Intelligent Air Cooling	
Ingress Protection Rating	IP66	
Guarantee Period	5 Years / 10 Years [Optional]	
Display	LED	
Communication	Yes: RS485/USB, Optional: 4G/WiFi/Bluetooth	
Standards Compliance		
Grid Connection	NB/T 32004, G98/G99, VDE 0126/4105/0124, EN 50549-1/2, CEI0-21/CEI0-16, AS 4777.2, IEC 61727/62116, PEA, MEA, RD1699/661/413/244/2019, UNE 206006/206007, NTS Type B&C, UNE 217002/217001	
Safety Standards	EN/IEC 62109-1/2	
Others	EN/IEC 61000-6-1/2/3/4, IEC 61683, IEC 60068 [1, 2, 14, 30]	



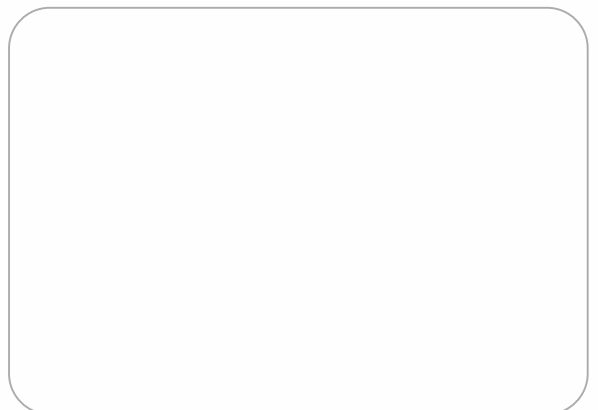
ROTOSOL
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