



R5 ROOFTOP SOLAR INVERTER

R5-3K/3.6K/4K/5K/6K/7K/8K-S2



PLATINUM MEMBERS ONLY*



Maximum efficiency
reaching 98.3%



150% DC input oversizing
110% AC output overloading



Die-casting case cover
Beautiful & reliable



App connection for realtime data
Remote maintenance & configuration



Quiet generation
No noise pollution



24H load monitoring
solution optional

Technical Data

R5 Series Single Phase Inverter 2 MPPT

Model	R5-3K-S2	R5-3.6K-S2	R5-4K-S2	R5-5K-S2	R5-6K-S2
Input (DC)					
Max.PV Array Power [Wp] @ STC	4500	5520	6000	7500	9000
Max. DC Voltage [V]			600		
MPPT Voltage Range [V]			90-550		
Nominal DC Voltage [V]			360		
Start Voltage [V]			100		
Min. DC Voltage [V]			80		
Max. DC Input Current PV1/PV2 [A]			12.5/12.5		
Number of DC Connection Sets Per MPPT			1/1		
Number of MPPT			2		
DC Switch			Optional		
Output [AC]					
Rated AC Power [W]	3000	3680	4000	4999	6000
Max. AC Power [VA]	3300	3680	4400	5000	6000
Rated AC Current [A]	13.1	16.0	17.4	21.7	26.1
Max. AC Current [A]	14.4	16.0	19.2	21.7	26.1
Nominal AC Voltage/ Range [V]			220,230,240/180-280		
Grid Frequency/ Range [Hz]			50,60/45-55,55-65		
Power Factor [cos φ]			0.8 leading~0.8 lagging		
Total Harmonic Distortion [THDi]			< 2% (at nominal power)		
Feed-in			L+N+PE		
Efficiency					
Max. Efficiency	97.8%	98.0%	98.0%	98.1%	98.2%
Euro Efficiency	97.2%	97.5%	97.5%	97.6%	97.6%
MPPT Accuracy			>99.5%		
Protection					
Internal Over-voltage Protection			Integrated		
DC Insulation Monitoring			Integrated		
DCI Monitoring			Integrated		
GFCI Monitoring			Integrated		
Grid Monitoring			Integrated		
AC Short Circuit Current Protection			Integrated		
AC Grounding detection			Integrated		
DC Surge Protection			Integrated		
AC Surge Protection			Integrated		
Thermal Protection			Integrated		
Anti-island Protection Monitoring			AFD		
Interface					
DC Connection			MC4		
AC Connection			Plug-in connector		
Human Machine Interface			LED + (bluetooth/ Wi-Fi+APP)		
Communication Port			Rs232 (USB joints)+RS485 (RJ45 crystal joints)		
Communication Mode			Wi-Fi / GPRS / 4G (Optional)		
General Data					
Topology			Transformerless		
Consumption at Night [W]			< 0.2		
Consumption at Standby [W]			6		
Operating Temperature Range			-40°C to +60°C		
Cooling Method			Natural convection		
Ambient Humidity			0-100% non-condensing		
Altitude			4000m (>3000m power derating)		
Noise [dBA]			< 25		
Ingress Protection			IP65		
Mounting			Rear Panel		
Dimensions [H*W*D][mm]			389*367*143		
Weight [kg]			12.2		
Standard Warranty [Year]			10 (standard)/15/20/25 (Optional)		
Applicable Standard			EN 50438, EN 50549, VDE-AR-N4105, AS/NZS 4777.2, CEI 0-21		

Technical Data

R5 Series Single Phase Inverter 2 MPPT

Model	R5-7K-S2	R5-8K-S2
Input (DC)		
Max.PV Array Power [Wp] @ STC	10500	12000
Max. DC Voltage [V]	600	
MPPT Voltage Range [V]	90-550	
Nominal DC Voltage [V]	360	
Start Voltage [V]	100	
Min. DC Voltage [V]	80	
Max. DC Input Current PV1/PV2 [A]	25/12.5	
Number of DC Connection Sets Per MPPT	2/1	
Number of MPPT	2	
DC Switch	Optional	
Output [AC]		
Rated AC Power [W]	7000	8000
Max. AC Power [VA]	7700	8000
Rated AC Current [A]	30.5	34.8
Max. AC Current [A]	33.5	34.8
Nominal AC Voltage/ Range [V]	220,230,240/180-280	
Grid Frequency/ Range [Hz]	50,60/45-55,55-65	
Power Factor [cos φ]	0.8 leading~0.8 lagging	
Total Harmonic Distortion [THDi]	< 2% (at nominal power)	
Feed-in	L+N+PE	
Efficiency		
Max. Efficiency	98.2%	98.3%
Euro Efficiency	97.7%	97.8%
MPPT Accuracy	>99.5%	
Protection		
Internal Over-voltage Protection	Integrated	
DC Insulation Monitoring	Integrated	
DCI Monitoring	Integrated	
GFCI Monitoring	Integrated	
Grid Monitoring	Integrated	
AC Short Circuit Current Protection	Integrated	
AC Grounding detection	Integrated	
DC Surge Protection	Integrated	
AC Surge Protection	Integrated	
Thermal Protection	Integrated	
Anti-island Protection Monitoring	AFD	
Interface		
DC Connection	MC4	
AC Connection	Plug-in connector	
Human Machine Interface	LED + (bluetooth/ Wi-Fi+APP)	
Communication Port	Rs232 (USB joints)+RS485 (RJ45 crystal joints)	
Communication Mode	Wi-Fi / GPRS / 4G (Optional)	
General Data		
Topology	Transformerless	
Consumption at Night [W]	<0.2	
Consumption at Standby [W]	6	
Operating Temperature Range	-40°C to +60°C	
Cooling Method	Natural convection	
Ambient Humidity	0-100% non-condensing	
Altitude	4000m (>3000m power derating)	
Noise [dBA]	<25	
Ingress Protection	IP65	
Mounting	Rear Panel	
Dimensions [H*W*D][mm]	429*418*177	
Weight [kg]	18	
Standard Warranty [Year]	10 (standard)/15/20/25 (Optional)	
Applicable Standard	EN 50438, EN 50549, VDE-AR-N4105, AS/NZS 4777.2, CEI 0-21	