



R5 Rooftop Solar Inverter

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

R5-5K/6K-S2-3

5+5 Year Warranty
Australian local after-sales service support



SAJ

- Lightning protection
High precision leakage monitoring
- Die-casting case cover
Beautiful & reliable
- Low standby consumption
High efficiency, high yield
- 4G monitoring + data plan
Plug & play solution
- Remote maintenance
Remote configuration
- Quiet generation
No noise pollution
- Intelligent & grid-friendly
Active response to grid dispatch



Technical Data

R5 Series Single Phase Inverter 2 MPPT

Type	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 (running in reduced load condition when the temperature is above 45°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]			5 (standard)/10/15/20/25 (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

Type	R5-5K-S2-3	R5-6K-S2-3	R5-7K-S2	R5-8K-S2
Input (DC)				
Max.PV Array Power [Wp] @ STC	7500	9000	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]	4999	6000	7000	8000
Max. AC Power [VA]	5000	6600	7700	8000
Rated AC Current [A]	21.7	26.1	30.5	34.8
Max. AC Current [A]	21.7	28.7	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	98.1%	98.2%	98.2%	98.3%
Euro Efficiency	97.6%	97.6%	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 (running in reduced load condition when the temperature is above 45°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]		5 (standard)/10/15/20/25 (Optional)		
Applicable Standard		EN 50438 EN 50549 VDE-AR-N4105 AS/NZS 4777.2 CEI 0-21		



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