



SAJ Australia Pty Ltd

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R5 Series Residential Solar Inverter

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

R5-5K/6K-S2-3



-  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

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

Type	R5-3K-S2	R5-3.6K-S2	R5-4K-S2	R5-5K-S2	R5-6K-S2	R5-5K-S2-3	R5-6K-S2-3	R5-7K-S2	R5-8K-S2
Input (DC)									
Max.PV Array Power [Wp] @ STC	4500	5520	6000	7500	9000	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]			12.5/12.5				25/12.5		
Number of DC Connection Sets Per MPPT			1/1				2/1		
Number of MPPT					2				
Output [AC]									
Rated AC Power [W]	3000	3680	4000	4999	6000	4999	6000	7000	8000
Max. AC Power [VA]	3300	3680	4400	5000	6000	5000	6600	7700	8000
Rated AC Current [A]	13.1	16.0	17.4	21.7	26.1	21.7	26.1	30.5	34.8
Max. AC Current [A]	14.4	16.0	19.2	21.7	26.1	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	97.8%	98.0%	98.0%	98.1%	98.2%	98.1%	98.2%	98.2%	98.3%
Euro Efficiency	97.2%	97.5%	97.5%	97.6%	97.6%	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]			389*367*143				429*418*177		
Weight [kg]			12.2				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				