



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				