

## **R5 3-8K Single Phase On-Grid Inverter**

The R5 series represents SAJ's advanced on-grid solar inverters, boasting high efficiency, with AFCI function, quiet heat emission, and a reliable remote control connection. Covering a range of 3-8kW, featuring 2 MPPTs, and designed for single-phase grid systems.



- Lightning protection, High precision leakage monitoring
- Low standby consumption High efficiency, high yield
- APP connection, All data at real time
- Remote maintenance, Remote configuration
- Quiet generation, No noise pollution
- Intelligent & grid-friendly, Active response to grid dispatch

R5-3K-S2-15 | R5-5K-S2-15 R5-6K-S2-15 | R5-8K-S2-15

MODEL	R5-3K-S2-15	R5-5K-S2-15	R5-6K-S2-15	R5-8K-S2-15
DC Input				
Max. PV Array Power [Wp]@STC	4500	7500	9000	12000
Max. DC Voltage [V]	600			
MPPT Voltage Range [V]	90-550			
Rated DC Voltage [V]	360			
Start Voltage [V]			100	
Min. DC Voltage [V]			80	
Max. DC Input Current [A]		15/15		30/15
Max. DC Short Circuit Current [A]		18/18		36/18
No. of Strings per MPPT		1/1		2/1
No. of MPPT	2			
DC Switch		Int	egrated	
AC Output				
Rated AC Power [W]	3000	5000	6000	8000
Max. Apparent Power*1[VA]	3300	5500	6000	8000
Rated Output Current [A]@230Vac	13.1	21.8 <del>*2</del>	26.1	34.8
Max. Output Current [A]	14.4	23.9	26.1	34.8
Rated AC Voltage/Range [V]		L+N+PE, 220.	230,240/180 ~ 280	
Rated Output Frequency/Range [Hz]				
Power Factor [cos φ]	0.8 leading ~ 0.8 lagging			
Total Harmonic Distortion [THDi]	<3%			
Efficiency				
Max. Efficiency	97.8%	98.1%	98.2%	98.3%
•	97.2%	97.6%	97.6%	97.8%
Euro Efficiency MPPT Efficiency	77.270		99.9%	77.076
Protection			77.7/0	
		lat	a wate d	
Internal Overvoltage Protection	Integrated			
DC Insulation Resistance Detection	Integrated Integrated			
DC Reverse Polarity Protection				
Grid Monitoring	Integrated			
GFCI Monitoring	Integrated			
DCI Monitoring	Integrated			
AC Short Circuit Current Protection	Integrated			
AC Grounding Detection	Integrated			
DC Surge Protection	Type II			
AC Surge Protection	Type II			
Anti-islanding Protection	Integrated			
AFCI Protection	Integrated			
Interface				
DC Connection	MC4/H4			
AC Connection	Plug-in Connector Terminal Block			
Display	LED+APP			
Communication Port	RS232(USB)+RS485(RJ45)+DRM			
Communication	Wi-Fi/Ethernet/4G(Optional)			
General Parameters				
Topology	Non-isolated			
Consumption at Night [W]	<1			
Operating Temperature Range	-40°C to +60°C (45°C to 60°C with derating)			
Cooling Method	Natural Convection			
Ambient Humidity	0-100% Non-condensing			
Altitude	4000m (>3000m Power Derating)			
Noise [dBA]			<25	
Ingress Protection	IP65			
Mounting	Wall Mounting			
Dimensions [H*W*D] [mm]	389*367*143 429			429*418*177
Weight [kg]	12.2			18
		5/1	0/15/20	
Warranty [Year]		0, 1		

Remarks: \*1 According to C10/C11, Max. Apparent Power= Rated AC Power

<sup>\*2</sup> According to VDE-ARN-N 4105, Rated AC Current for R5-5K-S2-15 is 20A; According to AS4777.2, Rated AC Current for R5-5K-S2-15 is 21.7A