

R5 Series Single Phase On-grid Inverter

R5 series is the SAJ's mature platform on on-grid solar inverter, with good efficiency, AFCI optional, quiet heat emission and stable remote control connection. R5 covers 0.7-8kW, 1-2MPPTs and single phase grid.



- ❑ Compact and light weight
- ❑ APP connection, all data at real time
- ❑ Remote maintenance configuration
- ❑ Quiet operation, no noise pollution
- ❑ External module with screen display
- ❑ High reliability, relay redundancy design

R5-0.7K-S1-15 | R5-1K-S1-15 | R5-1.5K-S1-15
R5-2K-S1-15 | R5-2.5K-S1-15 | R5-3K-S1-15

MODEL	R5-0.7K-S1-15	R5-1K-S1-15	R5-1.5K-S1-15	R5-2K-S1-15	R5-2.5K-S1-15	R5-3K-S1-15
DC Input						
Max. PV Array Power [Wp]@STC	1050	1500	2250	3000	3750	4500
Max. DC Voltage [V]		450			500	
MPPT Voltage Range [V]		40-425			50-450	
Rated DC Voltage [V]			360			
Start Voltage [V]		40			50	
Min. DC Voltage [V]			40			
Max. DC Input Current [A]			15			
Max. DC Short Circuit Current [A]			18			
No. of Strings per MPPT			1			
No. of MPPT			1			
DC Switch			Integrated			
AC Output						
Rated AC Power [W]	700	1000	1500	2000	2500	3000
Max. Apparent Power*1[VA]	770	1100	1650	2200	2750	3300
Rated Output Current [A]@230Vac	3.1	4.4	6.6	8.7	10.9	13.1
Max. Output Current [A]	3.5	5.0	7.5	10	12.5	15
Rated AC Voltage/Range [V]			L+N+PE, 220,230,240/180 ~ 280			
Rated Output Frequency/Range [Hz]			50,60/45 ~ 55,55 ~ 65			
Power Factor [cos φ]			0.8 leading ~ 0.8 lagging			
Total Harmonic Distortion [THDi]			<3%			
Efficiency						
Max. Efficiency	97.2%	97.3%	97.4%	97.6%	97.7%	97.8%
Euro Efficiency	96.4%	96.7%	96.8%	97.0%	97.1%	97.2%
MPPT Efficiency			>99.9%			
Protection						
Internal Overvoltage Protection			Integrated			
DC Insulation Resistance Detection			Integrated			
Grid Monitoring			Integrated			
GFCI Monitoring			Integrated			
DCI Monitoring			Integrated			
AC Short Circuit Current Protection			Integrated			
AC Grounding Detection			Integrated			
DC Surge Protection			Integrated			
AC Surge Protection			Integrated			
Anti-islanding Protection			Integrated			
Interface						
DC Connection			D4/MC4(Optional)			
AC Connection			Plug-in Connector			
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]			302*289*142			
Weight [kg]		7.2			7.5	
Warranty [Year]			10			
Applicable Standard	EN 62109-1/2, EN 61000-6-1/2/3/4, EN 50438, EN 50549, C10/11, IEC 62116, IEC 61727, RD 1699, RD 413, UNE 206006, UNE 206007, NTS, CEI 0-16, CEI 0-21, AS 4777.2, NBR 16149, NBR 16150, VDE-AR-N 4105, VDE 0126-1-1					

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