

# R5 0.7-3K Series Single Phase 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 0.7-3kW, 1 MPPTs and single phase grid.



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

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
<b>DC Input</b>						
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		
<b>AC Output</b>						
Rated AC Power [W]	700	1000	1500	2000	2500	3000
Rated Apparent Power [VA]	700	1000	1500	2000	2500	3000
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%		
<b>Efficiency</b>						
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%		
<b>Protection</b>						
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		
<b>Interface</b>						
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)		
<b>General Parameters</b>						
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]				5/10/15/20		
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 O-021, AS 4777.2, NBR 16149, NBR 16150, VDE-AR-N 4105, VDE 0126-1-1					