

R5 3-8K 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 3-8kW, 2 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

R5-3K-S2-15 | R5-3.6K-S2-15 | R5-4K-S2-15
R5-5K-S2-15 | R5-6K-S2-15 | R5-7K-S2-15 | R5-8K-S2-15

MODEL	R5-3K-S2-15	R5-3.6K-S2-15	R5-4K-S2-15	R5-5K-S2-15	R5-6K-S2-15	R5-7K-S2-15	R5-8K-S2-15
DC Input							
Max. PV Array Power [Wp]@STC	4500	5400	6000	7500	9000	10500	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				Integrated			
AC Output							
Rated AC Power [W]	3000	3680	4000	4999	6000	7000	8000
Rated Apparent Power [VA]	3000	3680	4000	4999	6000	7000	8000
Rated Output Current [A]@230Vac	13.1	16.0	17.4	21.7	26.1	30.5	34.8
Max.Output Current [A]	15.0	16.7	20.0	21.7	27.3	35.0	36.4
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	97.8%	98.0%	98.0%	98.1%	98.2%	98.2%	98.3%
Euro Efficiency	97.2%	97.5%	97.5%	97.6%	97.6%	97.7%	97.8%
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			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*418*177
Weight [kg]				12.2			18
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						