

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.



- ☐ 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 | R5-3.6K-S2-15 | R5-4K-S2-15
R5-5K-S2-15 | R5-5K-S2-15-B | 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	R5-5K-S2-15-B	R5-6K-S2-15	R5-7K-S2-15	R5-8K-S2-15
DC Input								
Max. PV Array Power [Wp]@STC	4500	5520	6000	7500	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	5000	5000	6000	7000	8000
Max. Apparent Power ^{*1} [VA]	3300	3680	4400	5500	5000	6000	7700	8000
Rated Output Current [A]@230Vac	13.1	16.0	17.4	21.8 ^{*2}	21.8	26.1	30.5	34.8
Max. Output Current [A]	14.4	16.0	19.2	23.9	21.8	26.1	33.5	34.8
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%	98.1%	98.2%	98.2%	98.3%
Euro Efficiency	97.2%	97.5%	97.5%	97.6%	97.6%	97.6%	97.7%	97.8%
MPPT Efficiency	>99.9%							
Protection								
Internal Overvoltage Protection					Integrated			
DC Insulation Ristance 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]					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: ^{*1} According to C10/C11, Max. Apparent Power= Rated AC Power.

^{*2} 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.