

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 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]	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.