

R6 Series Single Phase On-grid Inverter

R6 series is the SAJ's middle to high output platform on on-grid solar inverter, with good efficiency, AFCI optional, 110% AC overload and stable remote control connection. R6 covers 5-50kW, 2-4MPPTs and both single and three phase grid.



- ❑ AFCI(Optional)
- ❑ String current up to 16A
- ❑ Max. efficiency 98.2%
- ❑ Built-in AC & DC SPD
- ❑ Max. 3 MPP trackers
- ❑ Safety & reliability

R6-5K-S3 | R6-6K-S3 | R6-7K-S3
R6-8K-S3 | R6-9K-S3 | R6-10K-S3

MODEL	R6-5K-S3	R6-6K-S3	R6-7K-S3	R6-8K-S3	R6-9K-S3	R6-10K-S3
DC Input						
Max. PV Array Power [Wp]@ STC	7500	9000	10500	12000	13500	15000
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]			16/16/16			
Max. DC Short Circuit Current [A]			19.2/19.2/19.2			
No. of Strings per MPPT			1/1/1			
No. of MPPT			3			
DC Switch			Integrated			
AC Output						
Rated AC Power [W]	5000	6000	7000	8000	9000	10000
Max. Apparent Power ^{*1} [VA]	5500	6600	7700	8800	9900	10000
Rated Output Current [A]@ 230Vac	21.7 ^{*2}	26.1	30.4	34.8	39.1	43.5
Max. Output Current [A]	25	30	35	40	45	45.5
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			98.2%			
Euro Efficiency			97.8%			
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			
AFCI Protection			Optional			
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]			<35			
Ingress Protection			IP65			
Mounting			Wall Mounting			
Dimensions [H*W*D][mm]			391*532*202			
Weight [kg]		17.3			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 R6-5K-S3 is 20A.