

# R6 5-10K Series Single Phase Inverter

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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 5-10kW, 3 MPPTs and single phase grid.



- AFCI (Optional)
- String current up to 16A
- Max. efficiency 98.2%
- Built-in AC & DC SPD
- 110% AC overloading
- Safety & reliability

R6-5K-S3 | R6-6K-S3 | R6-8K-S3  
R6-9.9K-S3 | R6-10K-S3-A | R6-10K-S3

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MODEL	R6-5K-S3	R6-6K-S3	R6-8K-S3	R6-9.9K-S3	R6-10K-S3-A	R6-10K-S3
<b>DC Input</b>						
Max. PV Array Power [Wp]@STC	7500	9000	12000	15000	15000	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		
Overvoltage Category(OVC)				II		
DC Switch				Integrated		
<b>AC Output</b>						
Rated AC Power [W]	4999	6000	8000	9999	9999	10000
Rated Apparent Power [VA]	4999	6000	8000	9999	9999	10000
Max. Apparent Power [VA]	4999	6600	8800	9999	9999	10000
Rated AC Output Current [A]	21.7	26.1	34.8	43.5	43.5	43.5
Max. AC Current [A]	21.7	28.7	38.3	43.5	43.5	43.5
Current Inrush [A]				30		
Max. AC Fault Current [A]	65				100	
Max. AC Over Current Protection [A]	53				76	
Rated AC Voltage/Range [V]				L+N+PE, 220, 230, 240; 180 ~ 280		
Rated Output Frequency/Range [Hz]				50, 60 / 44-55, 54-65		
Power Factor [cos φ]				0.8 leading ~ 0.8 lagging		
Total Harmonic Distortion [THDi]				<3%		
Overvoltage Category(OVC)				III		
<b>Efficiency</b>						
Max. Efficiency				98.2%		
Euro Efficiency				98.7%		
<b>Protection</b>						
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				Type II		
AC Surge Protection				Type III (type II optional)		
Overheat Protection				Integrated		
Anti-islanding Protection				AFD		
AFCI Protection				Optional		
<b>Interface</b>						
DC Connection				D4/MC4 (Optional)		
AC Connection				Quick connector		
Display				LED+APP		
Communication Port				RS232+RJ45+DRM		
Communication				Wi-Fi/Ethernet/4G/PLC (Optional)		
<b>General Parameters</b>						
Topology				Non-isolated		
Consumption at Night [W]				<1		
Consumption at Standby [W]				<8		
Operating Temperature Range				-40°C ~ +60°C (>45°C derating)		
Cooling Method				Natural Convection		
Ambient Humidity				0% ~ 100%		
Altitude				4000m (>3000m derating)		
Noise [dBA]				<35		
Protective Class				Class I		
Ingress Protection				IP65		
Mounting				Wall Mounting		
Dimensions [H*W*D] [mm]				391*532*202		
Weight [kg]	17.3				18	
Warranty [Year]				Refer to the warranty policy		
Applicable Standard	IEC/EN62109-1/2, EN61000-6-1/2/3/4, IEC61683, IEC60068-2, IEC62116, IEC61727, EA/MEA, VDE0126-1-1/A1, CEI 0-21, VDE-AR-N 4105, AS/NZS4777.2, CQC NB/T 32004, G98/G99, NBR 16149, NBR 16150, C10/11, RD1669, UNE206006, UNE206007, EN50438					