

R6 5-10K Series Single Phase 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 5-10kW, 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

MODEL	R6-5K-S3	R6-6K-S3	R6-8K-S3	R6-9.9K-S3	R6-10K-S3-A	R6-10K-S3
DC Input						
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			
AC Output						
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			
Efficiency						
Max. Efficiency			98.2%			
Euro Efficiency			98.7%			
Protection						
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			
Interface						
DC Connection			D4/MC4 (Optional)			
AC Connection			Quick connector			
Display			LED+APP			
Communication Port			RS232+RJ45+DRM			
Communication			Wi-Fi/Ethernet/4G/PLC (Optional)			
General Parameters						
Topology			Non-isolated			
Consumption at Night [W]			<1			
Consumption at Standby [W]			<8			
Operating Temperature Range			-40℃ ~ +60℃ (>45℃ derating)			
Cooling Method			Natural Convection			
Ambient Humidity			0% ~ 100%			
Altitude			4000m (>3000m derating)			
Noise [dBA]			<35			
Protective Class			Class I			
Ingress Protection			IP65			
Protection Class			I			
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					