

# R6 Series Single Phase On-grid 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 5-50kW, 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
- ❑ 110% AC overloading
- ❑ Safety & reliability

R6-5K-S2-X | R6-6K-S2-X  
R6-7K-S2-X | R6-8K-S2-X  
R6-9K-S2-X | R6-10K-S2-X

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MODEL	R6-5K-S2-X	R6-6K-S2-X	R6-7K-S2-X	R6-8K-S2-X	R6-9K-S2-X	R6-10K-S2-X
<b>DC Input</b>						
Max. PV Array Power [Wp]@STC	7500	9000	10500	12000	12000	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]				16/16		
Max. DC Short Circuit Current [A]				19.2/19.2		
No. of Strings per MPPT				1/1		
No. of MPPT				2		
DC Switch				Integrated		
<b>AC Output</b>						
Rated AC Power [W]	5000	6000	7000	8000	9000	10000
Max. Apparent Power**[VA]	5500	6600	7700	8800	9900	10000
Rated Output Current [A]@230Vac	21.7	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%		
<b>Efficiency</b>						
Max. Efficiency				98.2%		
Euro Efficiency				97.8%		
<b>Protection</b>						
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		
AFCI Protection				Optional		
<b>Interface</b>						
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)		
<b>General Parameters</b>						
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]	16.5				17.3	
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-S2-X is 20A.