

# R6 15–25K Three Phase On-Grid Inverter

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R6 series is SAJ's mid- to high-output platform for on-grid solar inverters, offering excellent efficiency, optional AFCI, 110% AC overload protection, and a stable remote control connection. This series covers a range of 15–25kW, features 2 MPPTs, and is compatible with three-phase grid systems.



- ❑ AFCI (Integrated)
- ❑ String current up to 16A
- ❑ Max. efficiency 98.8%
- ❑ Built-in AC & DC SPD
- ❑ 110% AC overloading
- ❑ Safety & reliability

R6-15K-T2-32 | R6-17K-T2-32 | R6-20K-T2-32  
R6-22K-T2-32 | R6-25K-T2-32

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MODEL	R6-15K-T2-32	R6-17K-T2-32	R6-20K-T2-32	R6-22K-T2-32	R6-25K-T2-32
<b>DC Input</b>					
Max. PV Array Power [Wp]@STC	22500	25500	30000	33000	37500
Max. DC Voltage [V]			1100		
MPPT Voltage Range [V]			180 ~ 1000		
Rated DC Voltage [V]			600		
Start Voltage [V]			200		
Min. DC Voltage [V]			180		
Max. DC Input Current [A]			32/32		
Max. DC Short Circuit Current [A]			38.4/38.4		
No. of Strings per MPPT			2/2		
No. of MPPT			2		
DC Switch			Integrated		
<b>AC Output</b>					
Rated AC Power [W]	15000	17000	20000	22000	25000
Max. Apparent Power*1[VA]	16500	18700	22000	24200	25000
Rated Output Current [A]@230Vac	21.7	24.6	29	31.9	36.2
Max. Output Current [A]	25	28.3	33.3	36.7	37.9
Rated AC Voltage/Range [V]			3L+N+PE, 220/380, 230/400, 240/415; 180 ~ 280/312 ~ 485		
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			98.8%		
Euro Efficiency			98.5%		
<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			Integrated		
<b>Interface</b>					
DC Connection			MC4/H4		
AC Connection			Plug-in Connector		
Display			LED+APP		
Communication Port			RS232(USB)+RS485(RJ45)+DRM		
Communication			Wi-Fi/Ethernet/4G(Optional)		
Load Monitoring			24/7 (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			Intelligent Fan cooling		
Ambient Humidity			0-100% Non-condensing		
Altitude			4000m (>3000m Power Derating)		
Noise [dBA]			<50		
Ingress Protection			IP65		
Mounting			Wall Mounting		
Dimensions [H*W*D] [mm]			429.5*558*234.5		
Weight [kg]			22.5		
Warranty [Year]			5/10/15/20		
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