

R6 25-50K Series Three 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 25-50kW, 4 MPPTs and three phase grid.



- ☐ AFCI (Optional)
- ☐ String current up to 16A
- ☐ Max. efficiency 98.6%
- ☐ Built-in AC & DC SPD
- ☐ 110% AC overloading
- ☐ Safety & reliability

R6-25K-T4-32-AUS | R6-30K-T4-32-AUS
R6-33K-T4-32-AUS | R6-40K-T4-32-AUS | R6-50K-T4-32-AUS

MODEL	R6-25K-T4-32-AUS	R6-30K-T4-32-AUS	R6-33K-T4-32-AUS	R6-40K-T4-32-AUS	R6-50K-T4-32-AUS
DC Input					
Max. PV Array Power [Wp]@STC	37500	45000	49500	60000	75000
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]			32/32/32/32		
Max. DC Short Circuit Current [A]			38.4/38.4/38.4/38.4		
No. of Strings per MPPT			2/2/2/2		
No. of MPPT			4		
DC Switch			Integrated		
AC Output					
Rated AC Power [W]	25000	29999	33000	40000	50000
Rated Apparent Power [VA]	25000	29999	33000	40000	50000
Max. Apparent Power [VA]	25000	29999	33000	40000	50000
Rated/Max. AC Output Current [A]	36.3	43.5	47.9	58	72.5
Current Inrush [A]		55.0			60.0
Max. AC Fault Current [A]		150.0			165.0
Max. AC Over Current Protection [A]		112.0			120.0
Rated AC Voltage/Range [V]		3+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%		
Efficiency					
Max. Efficiency			98.8%		
Euro Efficiency			98.5%		
Protection					
Internal Overvoltage Protection			Integrated		
DC Insulation Rsistance 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			AFD		
AFCI Protection			Integrated		
Interface					
DC Connection			D4/MC4 (Optional)		
AC Connection			Terminal Block		
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			Intelligent Fan cooling		
Ambient Humidity			0~100% Non-condensing		
Altitude			4000m (>3000m Power Derating)		
Noise [dBA]			<50		
Ingress Protection			IP65		
Protection Class			I		
Mounting			Wall Mounting		
Dimensions [H*W*D] [mm]			473*659.4*240		
Weight [kg]		36.5			37
Warranty [Year]			Refer to the warranty policy		
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 O-021, AS 4777.2, NBR 16149, NBR 16150, VDE-AR-N 4105, VDE 0126-1-1				

Manufacturer: Guangzhou Sanjing Electric Co., Ltd.
Made in China

Products are continuously updated and parameters are just for references.

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