

R6 Series Three Phase On-grid 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 5-50kW, 2-4MPPTs and both single 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

R6-3K-T2 | R6-4K-T2 | R6-5K-T2 | R6-6K-T2
R6-8K-T2 | R6-10K-T2 | R6-10K-T2-B
R6-12K-T2 | R6-15K-T2

MODEL	R6-3K-T2	R6-4K-T2	R6-5K-T2	R6-6K-T2	R6-8K-T2	R6-10K-T2	R6-10K-T2-B	R6-12K-T2	R6-15K-T2
DC Input									
Max. PV Array Power [Wp]@ STC	4500	6000	7500	9000	12000	15000	15000	18000	22500
Max. DC Voltage [V]					1100				
MPPT Voltage Range [V]					160 ~ 950				
Rated DC Voltage [V]					600				
Start Voltage [V]					180				
Min. DC Voltage [V]					150				
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				
AC Output									
Rated AC Power [W]	3000	4000	5000	6000	8000	10000	10000	12000	15000
Max. Apparent Power ^{*1} [VA]	3300	4400	5500	6600	8800	11000	10000	13200	15000
Rated Output Current [A]@ 230Vac	4.4	5.8	7.3	8.7	11.6	14.5	14.5	17.4	21.8
Max. Output Current [A]	5.0	6.7	8.4	10.0	13.4	16.7	15.2	20.0	22.8
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%								
Efficiency									
Max. Efficiency	98.2%	98.5%	98.5%	98.5%	98.6%	98.6%	98.6%	98.6%	98.6%
Euro Efficiency	97.8%	98.2%	98.2%	98.2%	98.3%	98.3%	98.3%	98.4%	98.4%
Protection									
Internal Overvoltage Protection					Integrated				
DC Insulation Ristance 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				
Interface									
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)				
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					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*190				
Weight [kg]					15				
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.