

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 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					
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.