

R6 3-15K Three Phase On-Grid Inverter

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 3-15kW, features 2 MPPTs, and is compatible with three-phase grid systems.



- ❑ AFCI (Integrated)
- ❑ 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 | R6-12K-T2 | R6-15K-T2

MODEL	R6-3K-T2	R6-4K-T2	R6-5K-T2	R6-6K-T2	R6-8K-T2	R6-10K-T2	R6-12K-T2	R6-15K-T2
DC Input								
Max. PV Array Power [Wp]@STC	4500	6000	7500	9000	12000	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	12000	15000
Max. Apparent Power*1[VA]	3300	4400	5500	6600	8800	11000	13200	15000
Rated Output Current [A]@230Vac	4.4	5.8	7.3	8.7	11.6	14.5	17.4	21.8
Max. Output Current [A]	5.0	6.7	8.4	10.0	13.4	16.7	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%
Euro Efficiency	97.8%	98.2%	98.2%	98.2%	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					Integrated			
Interface								
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)			
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]					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