

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 98.8%
- ❑ Built-in AC & DC SPD
- ❑ 110% AC overloading
- ❑ Safety & reliability

R6-25K-T3-32-B | R6-25K-T3-32 | R6-30K-T3-32-B
R6-30K-T3-32 | R6-33K-T3-32 | R6-36K-T3-32
R6-36K-T4-32 | R6-40K-T4-32 | R6-50K-T4-32

MODEL	R6-25K-T3-32-B	R6-25K-T3-32	R6-30K-T3-32-B	R6-30K-T3-32	R6-33K-T3-32	R6-36K-T3-32	R6-36K-T4-32	R6-40K-T4-32	R6-50K-T4-32
DC Input									
Max. PV Array Power [Wp]@STC	37500	37500	45000	45000	49500	54000	54000	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						32/32/32/32		
Max. DC Short Circuit Current [A]	38.4/38.4/38.4						38.4/38.4/38.4/38.4		
No. of Strings per MPPT	2/2/2						2/2/2/2		
No. of MPPT	3						4		
DC Switch	Integrated								
AC Output									
Rated AC Power [W]	25000	25000	30000	30000	33000	36000	36000	40000	50000
Max. Apparent Power ^{*1} [VA]	25000	27500	30000	33000	36300	39600	39600	44000	50000
Rated Output Current [A]@230Vac	36.3	36.3	43.5	43.5 ^{*2}	47.8	52.2	52.2	58	72.5
Max. Output Current [A]	37.9	41.7	45.5	50	55	60	60	66.7	75.8
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	97.5%								
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	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]	473*659.4*240								
Weight [kg]	35					37			37.5
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.

^{*2} According to AS4777.2, Rated AC Current for R6-30K-T3-32 is 43.4A.