

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 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	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.