



R5 ROOFTOP SOLAR INVERTER

R5-3K/4K/5K/6K/8K/9K/10K/15K/17K/20K-T2-AUS



PLATINUM MEMBERS ONLY*



Maximum efficiency
reaching 98.8%



Intelligent & Grid-friendly
Active response to grid dispatch



Without external fan design
Natural heat dissipation & Quiet operation



150% DC input oversizing
110% AC output overloading



App connection for realtime data
Remote maintenance & configuration



24H load monitoring
solution optional

SAJ Australia Pty., Ltd.

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R5 Series Three Phase Inverter 2 MPPT

Model	R5-3K-T2-AUS	R5-4K-T2-AUS	R5-5K-T2-AUS	R5-6K-T2-AUS	R5-8K-T2-AUS	R5-9K-T2-AUS	R5-10K-T2-AUS
Input (DC)							
Max.PV Array Power [Wp] @ STC	4500	6000	7500	9000	12000	13500	15000
Max. DC Voltag [V]	600						
MPPT Voltage range [V]	160-550						
Nominal DC Voltage [V]	480						
Start Voltage [V]	180						
Min. DC Voltage [V]	150						
Max. DC Input Current PV1/PV2 [A]	12.5/12.5					11/22	
Number of DC Connection Sets per MPPT	1/1					1/2	
Number of MPPT	2						
DC Switch	Optional						
Output (AC)							
Rated AC Power [W]	3000	4000	5000	6000	8000	9000	10000
Max. AC Power [VA]	3300	4400	5500	6600	8800	9900	11000
Rated AC Current [A]	4.4	5.8	7.3	8.7	11.6	13.1	14.5
Max. AC Current [A]	5.0	6.7	8.4	10.0	13.4	15.0	16.7
Nominal AC voltage/ range [V]	220/380, 230/400, 240/415; 180-280/312-485						
Grid frequency/ range [Hz]	50, 60/45-55, 55-65						
Power factor [cos ϕ]	0.8 leading~0.8 lagging						
Total Harmonic Distortion [THDi]	< 2% (at nominal power)						
Feed-in	3L+N+PE						
Efficiency							
Max. Efficiency	98.0%	98.3%	98.3%	98.3%	98.6%	98.6%	98.6%
Euro Efficiency	97.6%	98.0%	98.0%	98.0%	98.2%	98.2%	98.3%
MPPT Accuracy	> 99.5%						
Protection							
Internal Over-voltage Protection	Integrated						
DC Insulation Monitoring	Integrated						
DC Surge Protection	Integrated						
Grid Monitoring	Integrated						
AC Short Circuit Current Protection	Integrated						
AC grounding detection	Integrated						
GFCI Monitoring	Integrated						
DCI Monitoring	Integrated						
AC Surge Protection	Integrated						
Thermal Protection	Integrated						
Inverter position monitoring	AFD						
Interface							
DC Connection	MC4						
AC Connection	Plug-in connector						
Human machine interface	LED + (bluetooth/ Wi-Fi + APP)						
Communication port	Rs232 (USB joints)+RS485 (RJ45 crystal joints)						
Communication Mode	Wi-Fi/ GPRS/ 4G (Optional)						
General Data							
Topology	Transformerless						
Consumption at Night [W]	< 0.6						
Consumption at Standby [W]	< 10						
Operating Temperature Range	-40°C to +60°C						
Cooling Method	Natural convection						
Ambient Humidity	0-100% non-condensing						
Altitude	4000m (>3000m power derating)						
Noise[dBA]	< 29						
Ingress Protection	IP65						
Mounting	Rear Panel						
Dimensions [H*W*D][mm]	429*418*177						
Weight [kg]	19						
Standard Warranty [Year]	10 (Standard)/15/20/25 (Optional)						
Applicable Standard	IEC62109-1/2, IEC61000-6-1/2/3/4, EN50438, EN50549, C10/C11, IEC62116, IEC61727, RD1699, UNE 206006, UNE 206007, CEI 0-21, AS4777.2, COC NB/T 32004, VDE-AR-N 4105						

Technical Data

R5 Series Three Phase Inverter 2 MPPT

Model	R5-15K-T2-AUS	R5-17K-T2-AUS	R5-20K-T2-AUS
Input (DC)			
Max.PV Array Power [Wp] @ STC	22500	25500	30000
Max. DC Voltag [V]		1100	
MPPT Voltage range [V]		180-950	
Nominal DC Voltage [V]		600	
Start Voltage [V]		200	
Min. DC Voltage [V]		180	
Max. DC Input Current PV1/PV2 [A]		25/25	
Number of DC Connection Sets per MPPT		2/2	
Number of MPPT		2	
DC Switch		Optional	
Output (AC)			
Rated AC Power [W]	15000	17000	20000
Max. AC Power [VA]	16500	18700	22000
Rated AC Current [A]	21.8	24.7	29.0
Max. AC Current [A]	25.0	28.4	33.4
Nominal AC voltage/ range [V]	220/380, 230/400, 240/415; 180-280/312-485		
Grid frequency/ range [Hz]	50, 60/45-55, 55-65		
Power factor [cos φ]	0.8 leading~0.8 lagging		
Total Harmonic Distortion [THDi]	< 2% (at nominal power)		
Feed-in	3L+N+PE		
Efficiency			
Max. Efficiency	98.7%	98.8%	98.8%
Euro Efficiency	98.4%	98.4%	98.4%
MPPT Accuracy	> 99.5%		
Protection			
Internal Over-voltage Protection	Integrated		
DC Insulation Monitoring	Integrated		
DC Surge Protection	Integrated		
Grid Monitoring	Integrated		
AC Short Circuit Current Protection	Integrated		
AC grounding detection	Integrated		
GFCI Monitoring	Integrated		
DCI Monitoring	Integrated		
AC Surge Protection	Integrated		
Thermal Protection	Integrated		
Inverter position monitoring	AFD		
Interface			
DC Connection	MC4		
AC Connection	Terminal Block		
Human machine interface	LED + (bluetooth/ Wi-Fi+APP)		
Communication port	Rs232 (USB joints)+RS485 (RJ45 crystal joints)		
Communication Mode	Wi-Fi/ GPRS/ 4G (Optional)		
General Data			
Topology	Transformerless		
Consumption at Night [W]	< 0.6		
Consumption at Standby [W]	< 10		
Operating Temperature Range	-40°C to +60°C		
Cooling Method	Natural convection		
Ambient Humidity	0-100% non-condensing		
Altitude	4000m (>3000m power derating)		
Noise[dBA]	<29		
Ingress Protection	IP65		
Mounting	Rear Panel		
Dimensions [H*W*D][mm]	530*490*210		
Weight [kg]	27		
Standard Warranty [Year]	10 (Standard)/15/20/25 (Optional)		
Applicable Standard	IEC62109-1/2, IEC61000-6-1/2/3/4, EN50438, EN50549, C10/C11, IEC62116, IEC61727, RD1699, UNE 206006, UNE 206007, CEI 0-21, AS4777.2, CQC NB/T 32004, VDE-AR-N 4105		