



R5 Series Residential Solar Inverter

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



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- Lightning protection
High precision leakage monitoring
- Die-casting case cover
Beautiful & reliable
- Low standby consumption
High efficiency, high yield
- 4G monitoring + data plan
Plug & play solution
- Remote maintenance
Remote configuration
- Quiet generation
No noise pollution
- Intelligent & grid-friendly
Active response to grid dispatch

Technical Data

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

Type	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	R5-15K-T2-AUS	R5-17K-T2-AUS	R5-20K-T2-AUS
Input (DC)										
Max.PV Array Power [Wp] @ STC	4500	6000	7500	9000	12000	13500	15000	22500	25500	30000
Max. DC Voltage[V]				600					1100	
MPPT Voltage range [V]				160-550					180-950	
Nominal DC Voltage[V]				480					600	
Start Voltage [V]				180					200	
Min. DC Voltage[V]				150					180	
Max. DC Input Current PV1/PV2 [A]		12.5/12.5				11/22			25/25	
Number of DC Connection Sets per MPPT		1/1				1/2			2/2	
Number of MPPT					2					
Output (AC)										
Rated AC Power[W]	3000	4000	5000	6000	8000	9000	10000	15000	17000	20000
Max. AC Power[VA]	3300	4400	5500	6600	8800	9900	11000	16500	18700	22000
Rated AC Current [A]	4.4	5.8	7.3	8.7	11.6	13.1	14.5	21.8	24.7	29.0
Max. AC Current [A]	5.0	6.7	8.4	10.0	13.4	15.0	16.7	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	98.0%	98.3%	98.3%	98.3%	98.6%	98.6%	98.6%	98.7%	98.8%	98.8%
Euro Efficiency	97.6%	98.0%	98.0%	98.0%	98.2%	98.2%	98.3%	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		Plug-in connector						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 (running in reduced load condition when the temperature is above 45°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						530*490*210		
Weight [kg]		19						27		
Standard Warranty [Year]					5 (standard)/10/15/20/25 (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								