







## R5 Series Residential Solar Inverter

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



-  Lightning protection  
High precision leakage monitoring
-  Die-casting case cover  
Beautiful & reliable
-  Low standby consumption  
High efficiency, high yield
-  Remote Maintenance  
Remote Configuration
-  Quiet generation  
No noise pollution
-  Intelligent & Grid-friendly  
Active response to grid dispatch

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# 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	
<b>Input (DC)</b>											
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]				160-600					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						
<b>Output (AC)</b>											
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						
<b>Efficiency</b>											
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%						
<b>Protection</b>											
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						
<b>Interface</b>											
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)						
<b>General Data</b>											
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			
Manufacturing Country					China						