



# R5 Rooftop Solar Inverter

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

**Australian**  
**local** after-sales service support



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 Series Three Phase Inverter 2 MPPT

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
<b>Input (DC)</b>							
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			
<b>Output (AC)</b>							
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						
<b>Efficiency</b>							
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%						
<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			
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						
Weight [kg]	19						
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						

# Technical Data

## R5 Series Three Phase Inverter 2 MPPT

Type	R5-15K-T2-AUS	R5-17K-T2-AUS	R5-20K-T2-AUS
<b>Input (DC)</b>			
Max.PV Array Power [Wp] @ STC	22500	25500	30000
Max. DC Voltage [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	
<b>Output (AC)</b>			
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	
<b>Efficiency</b>			
Max. Efficiency	98.7%	98.8%	98.8%
Euro Efficiency	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		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]		530*490*210	
Weight [kg]		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	





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