



## R5 Series Residential Solar Inverter

R5-3K/4K/5K/6K/8K/9K/10K/12K/13K/15K/17K/20K-T2



-  Lightning protection  
High precision leakage monitoring
-  Die-casting case cover  
Beautiful & reliable
-  Low standby consumption  
High efficiency, high yield
-  APP connection  
All data at real time
-  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/12K/13K/15K/17K/20K-T2

Type	R5-3K-T2	R5-4K-T2	R5-5K-T2	R5-6K-T2	R5-8K-T2	R5-9K-T2	R5-10K-T2	R5-12K-T2	R5-13K-T2	R5-15K-T2	R5-17K-T2	R5-20K-T2	
<b>Input (DC)</b>													
Max.PV Array Power [Wp]@STC	4500	6000	7500	9000	12000	13500	15000	15600	19500	22500	25500	30000	
Max. DC Voltage [V]						1100							
MPPT Voltage Range [V]						160-950					180-950		
Nominal DC Voltage[V]						600							
Start Voltage [V]						180					200		
Min. DC Voltage [V]						150					160		
Max. DC Input Current [A]						12.5/12.5					25/12.5		
Number of DC Connection Sets per MPPT						1/1					2/1		
Number of MPPT						2							
DC Switch						Integrated							
<b>Output (AC)</b>													
Rated AC Power [W]	3000	4000	5000	6000	8000	9000	10000	12000	13000	15000	17000	20000	
Max. AC Power [VA]	3000	4000	5000	6000	8000	9000	10000	12000	13000	15000	17000	20000	
Rated AC Current [A]@230Vac	4.4	5.8	7.3	8.7	11.6	13.1	14.5	17.4	18.9	21.8	24.7	29.0	
Max. AC Current [A]	5.0	6.7	8.4	10.0	13.4	15.0	16.7	18.2	21.7	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%	98.6%	98.7%	98.7%	98.8%	98.8%	
Euro Efficiency	97.6%	98.0%	98.0%	98.0%	98.2%	98.2%	98.3%	98.3%	98.4%	98.4%	98.46%	98.46%	
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							
Anti-island protection 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					480*440*200		530*490*210
Weight [kg]						19					26		29
Standard Warranty [Year]						5 (standard)/10/15/20/25 (Optional)							
Applicable Standard	IEC62109-1/2, IEC61000-6-1/2/3/4, EN50438, C10/C11, IEC62116, IEC61727, RD1699, UNE 206006, UNE 206007, CEI 0-21, CEI 0-16, CQC NB/T 32004-2013, G98, G99												