



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
-  Bluetooth 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					
Input (DC)																	
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											
Output (AC)																	
Rated AC Power [W]	3000	4000	5000	6000	8000	9000	10000	12000	13000	15000	17000	20000					
Max. AC Power [VA]	3300	4400	5500	6600	8800	9900	11000	12000	14300	16500	18700	22000					
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											
Efficiency																	
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%											
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											
Anti-island protection 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				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																

* Remarks: 1. Products are continuously upgraded and parameters are for reference only.