



R5 Series Residential Solar Inverter

R5-4K/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

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

Type	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)											
Recommended Accessed DC power ¹ [W]	4840	6050	7260	9680	10890	12100	14400	15730	18150	20570	24200
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	180	
Max. DC Input Current PV1/PV2 [A]					12.5/12.5					25/25	
Number of DC Connection Sets per MPPT					1/1					2/1	
Number of MPPT						2					
DC Switch						Integrated					
Output (AC)											
Rated AC Power[W]	4000	5000	6000	8000	9000	10000	12000	13000	15000	17000	20000
Max. AC Power[VA]	4400	5500	6600	8800	9900	11000	12000	14300	16500	18700	22000
Rated AC Current [A]	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]	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	98.3%	98.3%	98.3%	98.6%	98.6%	98.6%	98.6%	98.7%	98.7%	98.8%	98.8%
Euro Efficiency [@600Vdc]	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					
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							480*440*200		530*490*210	
Weight [kg]	19							26		29	
Standard Warranty [Year]						5 (standard)/10/15/20/25 (Optional)					
Certificates	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. 1000W/M² 25°C 2. Products are continuously upgraded and parameters are for reference only.