



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						
Nominal DC Voltage[V]						600						
Start Voltage [V]						180						
Min. DC Voltage[V]					150					160		
Max. DC Input Current PV1/PV2 [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]	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								23.5		27	
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											

* Remarks: 1. 1000W/M² 25°C 2. Products are continuously upgraded and parameters are for reference only.