



**GUANGZHOU SANJING ELECTRIC CO., LTD.**

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**R5 Series Residential Solar Inverter**

R5-3K/3.6K/4K/5K/6K/7K/8K-S2



-  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

# Technical Data

R5-3K/3.6K/4K/5K/6K/7K/8K-S2

Type	R5-3K-S2	R5-3.6K-S2	R5-4K-S2	R5-5K-S2	R5-6K-S2	R5-7K-S2	R5-8K-S2
<b>Input (DC)</b>							
Recommended Accessed DC Power <sup>1</sup> [W]	3630	4420	4840	6050	7200	8470	9600
Max. DC Voltage [V]				600			
MPPT Voltage Range [V]				90-550			
Nominal DC Voltage [V]				360			
Start Voltage [V]				100			
Min. DC Voltage[V]				80			
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			
<b>Output [AC]</b>							
Rated AC Power [W]	3000	3680	4000	4600 <sup>2</sup> /5000 <sup>3</sup> /5000	6000	7000	8000
Max. AC Power [VA]	3300	3680	4400	4600/5000/5500	6000	7700	8000
Rated AC Current [A]	13.1	16.0	17.4	21.8	26.1	30.5	34.8
Max. AC Current [A]	14.4	16.0	19.2	24.0	26.1	33.5	34.8
Nominal AC Voltage/ Range [V]				220,230,240/180-280			
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				L+N+PE			
<b>Efficiency</b>							
Max. Efficiency	97.8%	98.0%	98.0%	98.1%	98.2%	98.2%	98.3%
Euro Efficiency [@360Vdc]	97.2%	97.5%	97.5%	97.6%	97.6%	97.7%	97.8%
MPPT Accuracy				>99.9%			
<b>Protection</b>							
Internal Over-voltage Protection				Integrated			
DC Insulation Monitoring				Integrated			
DCI Monitoring				Integrated			
GFCI Monitoring				Integrated			
Grid Monitoring				Integrated			
AC Short Circuit Current Protection				Integrated			
AC Grounding detection				Integrated			
DC Surge Protection				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]				<0.2			
Consumption at Standby [W]				6			
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]				<25			
Ingress Protection				IP65			
Mounting				Rear Panel			
Dimensions [H*W*D][mm]			389*367*143			429*418*177	
Weight [kg]			12.2			18	
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,AS4777.2,CQC NB/T 32004-2013,VDE-AR-N 4105			

Remarks: 1. 1000W/M<sup>2</sup> 25°C 2. Meet the VDE - ARN - N 4105 that biggest apparent power of single-phase is 4600 VA. 3.Applicable to Belgian grid standatrd. 4. The above parameters might be slightly modified accorindg to different grid codes.