



**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
-  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>							
Max.PV Array Power [Wp]@STC	4500	5400	6000	7500	9000	10500	12000
Max. DC Voltag [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 [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	5000	6000	7000	8000
Max. AC Power [VA]	3000	3680	4000	5000	6000	7000	8000
Rated AC Current [A]@230Vac	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	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			
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]				<0.2			
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)			
Applicable Standard			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			