



R5 SERIES


SINGLE PHASE





R5-3K-S2-15 | R5-3.6K-S2-15 | R5-4K-S2-15
 R5-5K-S2-15 | R5-6K-S2-15 | R5-7K-S2-15
 R5-8K-S2-15

 Lightning protection, High precision leakage monitoring

 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

Manufacturer: Guangzhou Sanjing Electric Co., Ltd.

Model	R5-3K-S2-15	R5-3.6K-S2-15	R5-4K-S2-15	R5-5K-S2-15	R5-6K-S2-15	R5-7K-S2-15	R5-8K-S2-15
Input (DC)							
Max. PV Array Power [Wp]@STC	4500	5400	6000	7500	9000	10500	12000
Max. Input Voltage [V]	600						
MPPT Voltage Range [V]	90-550						
Nominal Input Voltage [V]	360						
Start-up Voltage [V]	100						
Min. Input Voltage [V]	80						
Max. Input Current [A]	15/15					30/15	
Max. DC Short Circuit Current [A]	18/18					36/18	
No. of Strings per MPPT	1/1					2/1	
No. of MPPT	2						
DC Switch	Integrated						
Output (AC)							
Rated AC Output Power [W]	3000	3680	4000	4999	6000	7000	8000
Rated Apparent Power [VA]	3300	3680	4400	5000	6000	7700	8000
Rated AC Output Current [A]@230Vac	13.1	16.0	17.4	21.7	26.1	30.5	34.8
Max. AC Output Current [A]	15.0	16.7	20.0	22.7	27.3	35.0	36.4
Nominal AC Voltage/ Range [V]	220,230,240/180-280						
Nominal AC Grid Frequency/ Range [Hz]	50,60 / 45-55,55-65						
Total Distortion Harmonic [THDi]	<2%						
Power Factor [cos φ]	0.8 leading~0.8 lagging						
Feed-in	L+N+PE						
Efficiency							
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%						
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	AFD						
Interface							
DC Connection	MC4						
AC Connection	Plug-in Connector					Terminal Block	
Display	LED+(Bluetooth/Wi-Fi+APP)						
Communication Port	RS232(USB)+RS485(RJ45)						
Communication Mode	Wi-Fi/GPRS/4G(Optional)						
General Data							
Topology	Transformerless						
Consumption at Night [W]	<0.2						
Consumption at Standby [W]	6						
Operating Temperature Range	-40°C to +60°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	
Warranty [Year]	5 (standard)/10/15/20/25 (Optional)						
Certifications	IEC62109-1/2, IEC61000-6-1/2/3/4, EN50438, C10/C11, IEC62116, IEC61727, RD1699, UNE 206006, UNE 206007, CEI 0-21, AS4777.2, NBR 16149, NBR 16150, VDE-AR-N 4105						