



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

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	5000	6000	7000	8000
Rated Apparent Power ^{*1} [VA]	3300	3680	4400	5500	6000	7700	8000
Rated AC Output Current [A]@230Vac	13.1	16.0	17.4	21.8 ^{*2}	26.1	30.5	34.8
Max. AC Output Current [A]	15.0	16.7	20.0	25.0	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 Resistance Detection				Integrated			
Grid Monitoring				Integrated			
AC Short Circuit Current Protection				Integrated			
AC Grounding Detection				Integrated			
GFCI Monitoring				Integrated			
DCI Monitoring				Integrated			
DC Surge Protection				Type III			
AC Surge Protection				Type III			
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				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]				5/10/15/20/25			
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			

Remarks: ^{*1}According to C10/C11, Rated Apparent Power= Rated AC Power.

^{*2}According to VDE-ARN-N 4105, Rated AC Current for R5-5K-S2-15 is 20A; According to AS4777.2, Rated AC Current for R5-5K-S2-15 is 21.7A.