

# 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



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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
<b>Input (DC)</b>							
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						
<b>Output (AC)</b>							
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						
<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 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						
<b>Interface</b>							
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)						
<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						
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.