R5 SERIES

SINGLE PHASE





R5-0.7K-S1-15 | R5-1K-S1-15 | R5-1.5K-S1-15
R5-2K-S1-15 | R5-2.5K-S1-15 | R5-3K-S1-15

- Compact and light weight
- APP connection, all data at real time
- Remote maintenance configuration
- Quiet operation, no noise pollution
- External module with screen display
- High reliability, relay redundancy design

Model	R5-0.7K-S1-15	R5-1K-S1-15	R5-1.5K-S1-15	R5-2K-S1-15	R5-2.5K-S1-15	R5-3K-S1-15
Input (DC)						
Max. PV Array Power [Wp]@STC	1050	1500	2250	3000	3750	4500
Max. Input Voltage [V]	450			500		
MPPT Voltage Range [V]	40-425			50-450		
Nominal Input Voltage [V]	360					
Start-up Voltage [V]	40			50		
Min. Input Voltage [V]	40					
Max. Input Current [A]	15					
Max. DC Short Circuit Current [A]	18					
No. of Strings per MPPT	1					
No. of MPPT	1					
DC Switch	Integrated					
Output (AC)						
Rated AC Output Power [W]	700	1000	1500	2000	2500	3000
Rated Apparent Power*1 [VA]	770	1100	1650	2200	2750	3300
Rated AC Output Current [A]@230Vac	3.1	4.4	6.6	8.7	10.9	13.1
Max. AC Output Current [A]	3.5	5.0	7.5	10	12.5	15
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	97.2%	97.3%	97.4%	97.6%	97.7%	97.8%
Euro Efficiency	96.4%	96.7%	96.8%	97.0%	97.1%	97.2%
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 / Type II (Optional)					
Thermal Protection	Integrated					
Anti-island Protection	AFD					
Interface						
DC Connection	MC4					
AC Connection	Plug-in Connector					
Display	LED+(Bluetooth/Wi-Fi+APP)					
Communication Port	RS232(USB)+RS485(RJ45)+DRM					
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℃ to +60℃					
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]	302*289*142					
Weight [kg]	7.2			7.5		
Warranty [Year]	5/10/15/20/25					
Certifications	IEC62109-1/2, IEC61000-6-1/2/3/4, EN50438, EN50549, C10/C11, IEC62116, IEC61727, RD1699, UNE 206006, UNE 206007, CEI 0-21, AS4777.2, NBR 16149, NBR 16150, VDE-AR-N 4105					

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