

R5-0.7K/1K/1.5K/2K/2.5K/3K-S1



 Compact and light weight

 Remote maintenance configuration

 External module with screen display

 APP connection, all data at real time

 Quiet operation, no noise pollution

 High reliability, relay redundancy design

Technical Data



R5 Single Phase 1MPPT

Model	R5-0.7K-S1	R5-1K-S1	R5-1.5K-S1	R5-2K-S1	R5-2.5K-S1	R5-3K-S1
Input (DC)						
Max.PV Array Power [Wp]@STC	1050	1500	2250	3000	3250	3600
Max. DC Voltage [V]	450			500		
MPPT Voltage Range [V]	40-425			50-450		
Nominal DC Voltage[V]	360					
Start Voltage [V]	40			50		
Min. DC Voltage [V]	40					
Max. DC Input Current [A]	12.5					
Number of DC Connection Sets per MPPT	1					
Number of MPPT	1					
DC Switch	Integrated					
Output (AC)						
Rated AC Power [W]	700	1000	1500	2000	2500	3000
Max. AC Power *[VA]	770	1100	1650	2200	2750	3300
Rated AC Current [A]@230Vac	3.1	4.4	6.6	8.7	10.9	13.1
Max. AC Current [A]	3.5	5.0	7.5	10	12.5	15
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%					
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 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					
Interface						
DC Connection	MC4					
AC Connection	Plug-in connector					
Human Machine Interface	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°C to +60°C [45°C to 60°C with derating]					
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*125					
Weight [kg]	5.2			5.5		
Standard Warranty [Year]	5 (standard)/10/15/20/25 (Optional)					
Applicable Standard	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: ^{*1}According to C10/C11, Max. AC Power = Rated AC Power

R5-3K/3.6K/4K/5K/6K/7K/8K-S2



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

Technical Data



R5 Single Phase 2MPPT

Model	R5-3K-S2	R5-3.6K-S2	R5-4K-S2	R5-5K-S2	R5-6K-S2	R5-7K-S2	R5-8K-S2
Input (DC)							
Max. PV Array Power [Wp]@STC	4500	5400	6000	7500	9000	10500	12000
Max. DC Voltage [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 PV1/PV2 [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						
Output [AC]							
Rated AC Power [W]	3000	3680	4000	5000 ^{*1}	6000	7000	8000
Max. AC Power ^{*2} [VA]	3300	3680	4400	5500	6000	7700	8000
Rated AC Current [A] @230Vac	13.1	16.0	17.4	21.8 ^{*3}	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						
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 Monitoring				AFD			
Interface							
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	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 (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,NBR 16149, NBR 16150,VDE-AR-N 4105						

Remarks: *¹ According to VDE - ARN - N 4105, Rated AC Power for R5-5K-S2 is 4600VA; According to AS4777, Rated AC Power for R5-5K-S2 is 4999VA.

*² According to C10/C11, Max. AC Power = Rated AC Power

*³ According to VDE - ARN - N 4105, Rated AC Current for R5-5K-S2 is 20A; According to AS4777, Rated AC Current for R5-5K-S2 is 21.7A.