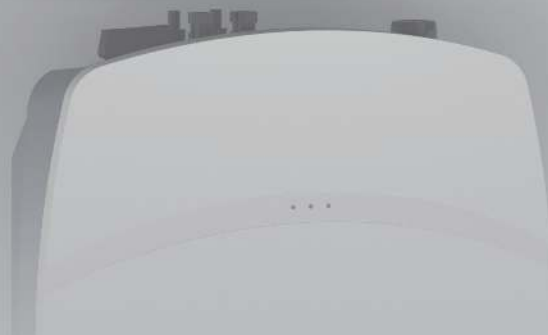


# R5-3K/3.6K/4K/5K/6K/7K/8K-S2



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
<b>Input (DC)</b>							
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			
<b>Output [AC]</b>							
Rated AC Power [W]	3000	3680	4000	5000* <sup>1</sup>	6000	7000	8000
Max. AC Power* <sup>2</sup> [VA]	3300	3680	4400	5500	6000	7700	8000
Rated AC Current [A] @230Vac	13.1	16.0	17.4	21.8* <sup>3</sup>	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						
<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 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			
<b>Interface</b>							
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)			
<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 (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: \*<sup>1</sup> 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.

\*<sup>2</sup> According to C10/C11, Max. AC Power = Rated AC Power

\*<sup>3</sup> 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.