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R5 Series Residential Solar Inverter

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



-  Lightning protection
High precision leakage monitoring
-  Die-casting case cover
Beautiful & reliable
-  Low standby consumption
High efficiency, high yield
-  Bluetooth 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

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

Type	R5-3K-S2	R5-3.6K-S2	R5-4K-S2	R5-5K-S2	R5-6K-S2	R5-7K-S2	R5-8K-S2
Input (DC)							
Recommended Accessed Max.DC Power [W]	3630	4420	4840	6050	7200	8470	9600
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	6000	7000	8000
Max. AC Power [VA]	3300	3680	4400	5500	6000	7700	8000
Rated AC Current [A]	13.1	16.0	17.4	21.8	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 [@360Vdc]	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			
DCI Monitoring				Integrated			
GFCI Monitoring				Integrated			
Grid Monitoring				Integrated			
AC Short Circuit Current Protection				Integrated			
AC Grounding detection				Integrated			
DC Surge Protection				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+APP)			
Communication Port				USB+RS485 (RJ45 crystal joints)			
Communication Mode				Wi-Fi / GPRS / Ethernet / 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 (rnhning 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 (Indoor & Outdoor Installation)			
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)			
Certificates	IEC/EN62109-1/2, EN61000-6-2/3/4, IEC62116, IEC61727, VDE0126-1-1/A1, CEI-021, VDE-AR-N 4105, AS/NZS4777.2, CQC NB/T 32004, G83/2, C10/11,RD1669,UNE206006, UNE206007,EN50438						

Remarks: The above parameters might be slightly modified accordin to different grid codes