









On-grid Single Phase Inverter

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

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

Type	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 Voltag [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]	700	1000	1500	2000	2500	3000
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 Mode			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			