



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 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 (Optional)					
Output (AC)						
Rated AC Power [W]	700	1000	1500	2000	2500	3000
Max. AC Power* ¹ [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 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					

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