



LV SINGLE PHASE INVERTER

RenonFlex

The system boasts fast switching (<10ms) with UPS functionality, ensuring uninterrupted power supply. It is also ideally compatible with glass-glass modules (DC 12.5A), providing high power output (100A charge current). In addition, the system is user-friendly, featuring easy setup of smart working modes, and operates at whisper-quiet and comfortable levels.



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PROTECTION

AC Short-circuit Protection

Integrated

AC Overvoltage/Undervoltage Protection

Integrated

Overload Protection

Integrated

AC Overfrequency/Underfrequency

Integrated

DC Overvoltage/Undervoltage Protection

Integrated

Peak-to-trough Period Setting

Integrated

2023-01-12

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Specifications are subject to change without notice.

Input DC	3K	3.6K	4K	5K	6K
Max.PV Array Power (Wp) @STC	4500	5400	6000	7500	9000
Max. Dc Voltage (V)			600		
MPPT Voltage Range(V)			90-550		
Nominal Dc Voltage(V)			360		
Start Voltage(V)			120		
Max. DC Input Current(A)			12.5/12.5		
Number of MPPT			2		
DC Switch			Integrated		

Battery Parameters					
Battery Type	Lithium battery				
Rated Input Voltage/Voltage Range (V)	48/42~58.5				
Max/Rated Charging Current(A)	60/60		100/100		
Battery Capacity (Ah)	50-2000				

Grid Parameters					
Rated Output Power (W)	3000	3680	4000	5000*	6000
Max.Output Power (VA)	3000	3680	4000	5000	6000
Rated Output Current (A)	13.1	16.0	17.4	21.8*	26.1
Max. Output Current (A)	13.1	16.7	18.2	22.7	27.3
Rated Grid Voltage/Range (V)	220,230,240/180~280				
Rated Grid Frequency/Range (Hz)	50,60/±5				
Power factor (cosφ)	0.8 leading~0.8 lagging				
Total Harmonic Distortion (THDi)	< 3%				
Feed-in	L+N+PE				

Efficiency	
Max. Efficiency	97.6%
Euro Efficiency	97.0%
Max. Battery to Load Efficiency	94.6%

Interface	
PV Input	MC4
Battery	Terminal Block
Display	LCD
Communication Mode	Wi-Fi/GPRS/Ethernet (Optional)

General Data	
Operating Temperature Range	25°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)	< 29
Ingress Protection	IP65
HxWxD (mm)	470x595x200
Weight (kg)	25
Standard Warranty (Year)	5

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, CQC NB/T 32004, VDE-AR-N 4105
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