



Sinus EVO RM

1 Phase In – 1 Phase Out / 1kVA – 3kVA

- On-Line Double Conversion Technology
- Real Digital Signal Processor (DSP) Controller
- User friendly LCD display
- High Efficiency
- Input Power Factor correction PFC (PF: >0.99)
- Wide Input Voltage & Frequency Range
- Cold Start Function
- Wide communication option
Standard: USB, RS-232, EPO
Optional: SNMP, Relay card
- Frequency Converter Operation Mode (50-60Hz)
- Generator compatible
- ECO Mode operation feature
- Environment friendly



TECHNICAL SPECIFICATIONS

MODEL	Sinus EVO 1KVA RM	Sinus EVO 2KVA RM	Sinus EVO 3KVA RM
Nominal Power (VA)	1000	2000	3000
INPUT			
Input Voltage Range*	110VAC - 300VAC		
Nominal Voltage	208/220/230/240VAC		
Frequency	50/60 Hz ±10% (Auto-sensing), 40-70Hz (@generator mode)		
Phase	1Ph - N - PE		
Power Factor	≥0.99		
OUTPUT			
Power Factor	0.9		
Output Voltage	208/220/230/240VAC		
Voltage Regulation	±1%		
Frequency	50/60 Hz		
Frequency Regulation	± 0.1%		
Output Voltage Harmonic (THDv)	≤3% (linear load); ≤5% (non-linear load)		
Transfer Time	Online Mode - Battery Mode: 0ms, Inverter - Bypass: 4ms (typical)		
Crest Factor	3:1		
Overload	105%~110%: 10 minute ,110%~130%: 1 minute, >130%: 5 seconds		
Efficiency**	> 88%	> 90%	
Outputs	2xIEC + 1xSchuko		
ECO mode	Present		
Frequency Converter	Present		
BATTERY			
Battery Type	12 V / Maintenance-free lead acid batteries		
Charge Time	4 hour 90% capacity (typical)		
Charge Current	1A (max.)		
Voltage	24VDC	48VDC	72VDC
QTY	2 x 12V / 9Ah	4 x 12V / 9Ah	6 x 12V / 9Ah
Cold Start	Present		
DISPLAY			
LED Display	Utility or Bypass, Battery Low, Battery Abnormal, Overload, UPS Off, UPS Abnormal		
LCD Display	Input / Output Voltage and Frequency, Load %, Battery Voltage, Internal Temperature		
ALARMS			
	Mains fault, Low Battery, Overload, UPS Failure		
PROTECTION			
	Short circuit, Over temperature, Overload, High voltage, Low battery, EPO		
COMMUNICATION			
Standard	RS232, USB, RJ45 (power surge-lightning protection)		
Optional	SNMP and Relay Card		
ENVIRONMENT			
Operating Temperature / Storage Temperature	0°C ~ +40°C / -25°C ~ +55°C		
Humidity	0 - 95% (non-condensing)		
Altitude	0 - 1500 m		
Noise Level (1m distance)	< 50 dBA		
Protection Level	IP20		
PHYSICAL			
Net Weight (kg)	11.3	19.5	26.2
Dimensions (mm) WxDxH (Rack)	440x325x86.5 (2U)	440x460x86.5 (2U)	440x600x86.5 (2U)
STANDARDS			
	EN 62040-1-1 (safety), EN 62040-2 (EMC)		

* Depends on the power rating and the amount of load at the output of UPS.

** It depends on UPS power and environmental conditions..