



Sinus EVO

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: ≥ 0.98)
- 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	Sinus EVO 2KVA	Sinus EVO 3KVA
Nominal Power (VA)	1000	2000	3000
INPUT			
Input Voltage Range*	110VAC - 300VAC		
Nominal Voltage	200*/208*/220/230/240VAC		
Frequency	50/60 Hz $\pm 10\%$ (Auto-sensing), 40-70Hz (@generator mode)		
Phase	1Ph - N - PE		
Power Factor	≥ 0.98		
OUTPUT			
Power Factor	0.9		
Output Voltage	200*/208*/220/230/240VAC		
Voltage Regulation	$\pm 2\%$		
Frequency	50/60 Hz		
Frequency Regulation	$\pm 0.1\%$		
Output Voltage Harmonic (THDv)	$\leq 3\%$ (linear load); $\leq 5\%$ (non-linear load)		
Transfer Time	Online Mode - Battery Mode: 0ms, Inverter - Bypass: 4ms (typical)		
Crest Factor	3:1		
Overload	120% 60s, 150% 200ms		
Efficiency**	$> 88\%$		$> 90\%$
Outputs***	2xIEC + 1xSchuko		3xIEC + 2xSchuko
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 / 7Ah	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 - Gross (kg)	9.3 - 10.3	18.8 - 20.8	23.3 - 25.8
Dimensions WxHxD (mm)	144x209x293		191x336x470
STANDARDS			
	EN 62040-1-1 (safety), EN 62040-2 (EMC), EN 62040-3 (performance)		

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

** It depends on UPS power and environmental conditions.

***Device outputs are optional, please contact your sales representative.

****Please contact to your sales representative for communication options.