



Sinus EVO

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

- On-line 'double conversion' technology
- High Output Power Factor (0,9)
- Input Power Factor correction PFC (>0,99)
- User friendly LCD display
- High Efficiency
- Wide Input Voltage & Frequency Range
- Smart Battery Management System
- 50/60Hz Frequency Converter Operation Mode
- Wide communication option
Standard: RS-232 and USB
Optional: SNMP, Dry contact board, Modbus, EPO
- ECO Mode operation feature
- Environment Friendly



TECHNICAL SPECIFICATIONS

MODEL		Sinus EVO 1kVA	Sinus EVO 2kVA	Sinus EVO 3kVA
Output Power Factor		0.9		
INPUT				
Input Voltage Range		120- 300VAC		
Input Frequency Range		40Hz - 70 Hz		
Phase		1PH - N - PE		
Power Factor		≥ 0.99 @ nominal input voltage		
OUTPUT				
Output Voltage		208/220/230/240VAC		
Voltage Regulation		±2% (Online Mode), ±1% (Battery Mode)		
Frequency		47 ~ 53 Hz or 57 ~ 63 Hz (Synchronized Range)		
Frequency (@Battery Mode)		50 Hz ± 0.5% or 60Hz ± 0.5%		
Overload		105%~110%: 10 minute ,110%~130%: 1 minute, >130%: 3 second		
Crest Factor		3:1		
THD		≤ 3 % THD (linear load); ≤ 6 % THD (non-linear load)		
Transfer Time	Online Mode - Battery Mode	0		
	Inverter - Bypass	4 ms (typical)		
Battery Mode Waveform		Pure Sinus		
Outputs		3xIEC Type + 1xSchuko	3xIEC Type + 2xSchuko	
Eco Mode		Present		
Frequency Converter		Present		
EFFICIENCY				
Online Mode		90%		
Battery Mode		88%		
BATTERY				
Battery Type		12 V / Maintenance-free lead acid batteries		
QTY		2 x 7Ah	4 x 9Ah	6 x 9Ah
Charge Time		4 hour 90% capacity (typical)		
Charge Current		1.0 A (max.)		
Automatic Battery Test		Present (@ start-up, 1/per week)		
Charge Voltage		27.4 VDC ± 1%	54.7 VDC ±1%	82.1 VDC ±1%
PHYSICAL				
Dimensions W x D x H (mm)		282 x 145 x 220	397 x 145 x 220	421 x 190 x 318
Weight (kg)		9,8	17	27,6
LCD Display (mm)		55x27,5		
ENVIRONMENTAL				
Temperature		0- 40°C (20 to 25 recommended for longer battery life time)		
Humidity		95 % RH (non-condensing)		
Noise Level (1m distance)		<50dBA		
COMMUNICATION				
Standard		Smart RS-232 and USB (Software)		
Optional		SNMP, Dry Contact, Modbus, EPO		