

# SINUS EVO Series

Online "Double Conversion" Technology  
1 Phase Input – 1 Phase Output 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



## Sinus Evo Series Technical Specifications

MODEL	Sinus EVO 1kVA	Sinus EVO 2kVA	Sinus EVO 3kVA
Output Power Factor	0,9		
<b>INPUT</b>			
Input Voltage Range	120- 300VAC		
Input Frequency Range	40Hz - 70 Hz		
Phase	1PH - N - PE		
Power Factor	≥ 0,99 @ nominal input voltage		
<b>OUTPUT</b>			
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	03:01		
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	
<b>EFFICIENCY</b>			
Online Mode		90%	
Battery Mode		88%	
<b>BATTERY</b>			
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)		
External Battery	Optional, with battery connector		
Charge Voltage	27,4 VDC ± 1%	54,7 VDC ±1%	82,1 VDC ±1%
<b>PHYSICAL</b>			
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		
<b>ENVIRONMENTAL</b>			
Temperature	0- 40°C (20 to 25 recommended for longer battery life time)		
Humidity	95 % RH (non-condensing)		
Noise Level (1m distance)	<50dBA		
<b>COMMUNICATION</b>			
Standard	Smart RS-232 and USB (Software)		
Optional	SNMP, Dry Contact, Modbus, EPO		