

## Sinus PRO RT

1 Phase In - 1 Phase Out / 1kVA – 10kVA

- True double conversion technology with pure sine wave output
- Real Digital Signal Processor (DSP) Controller
- Rack / Tower Convertible Design
- User friendly Convertible Colourful LCD display panel
- Unity Output Power Factor ( pf:1.0 )
- Input Power Factor correction PFC (PF: ≥0.99)
- High Efficiency, wide Input Voltage & Frequency Range
- Adjustable output voltage: 208/220/230/240Vac
- Hot-Swappable battery design ( @ 1-3kVA )
- Built-in parallel kit for parallel connection up to 4pcs UPS ( @ 6 & 10kVA )
- Wide Input Voltage & Frequency Range
- Cold Start Function
- External battery connection for increased back up time
- Intelligent fan speed regulation based on temperature
- Standard: USB, RS-232, EPO ( @ 1-10kVA )



- USB, RS-232, EPO, RS485 ( @ 6 & 10kVA )
- Optional: SNMP, Relay card
- Frequency Converter Operation Mode (50-60Hz)
- Generator compatible, energy saving mode (ECO MODE)
- Self Testing when UPS starts up ( @ 6 & 10kVA )
- Comprehensive protection function: short-circuit, overload, overheat, battery overcharge and overdischarge, output low voltage and fan fault alarm



### TECHNICAL SPECIFICATIONS

MODEL	Sinus PRO RT 1KVA	Sinus PRO RT 2KVA	Sinus PRO RT 3KVA	Sinus PRO RT 6KVA	Sinus PRO RT 10KVA
Capacity (kVA/kW)	1000VA / 1000W	2000VA / 2000W	3000VA / 3000W	6000VA/6000W	10000VA/10000W
<b>INPUT</b>					
Input Voltage Range*	110VAC - 300VAC				
Nominal Voltage	220/230/240Vac		208/220/230/240Vac		
Frequency	50/60 Hz ±%10 (Auto-sensing), 40-70Hz ( @generator mode )				
Phase	1Ph - N - PE				
Power Factor	≥0,99				
<b>OUTPUT</b>					
Power Factor	1				
Output Voltage	220/230/240Vac		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)			≤%1 (linear load); ≤%3 (non-linear load)	
Transfer Time	Online Mode - Battery Mode: 0ms, Inverter - Bypass: 4ms (typical)			Online Mode - Battery Mode: 0ms, Inverter - Bypass: 0ms	
Crest Factor	3:1				
Overload	Online mode	105%-125%: 1 min. 125%-130%: 30 sec.		105%-110%: 60 min, %110-%125: 10 min, %125-%150: 1 min, >%150: 0,5 sec switch to bypass immediately	
	Battery mode	105%-125%: 1 min. 125%-130%: 10 sec.		105%-110%: 10 min, %110-%125: 1 min, %125-%150: 10 sec, >%150: 0,5 sec.	
	Bypass mode	>130% switch to bypass immediately		105%-130%: Alarm, 130%-150%: 10 dk, %150-%200: 1 min, >%200: 0,5 sec.	
Efficiency**	> %89	> %91	> %92	> %95	> %95.5
Outputs	2xC13 + 1xGerman Std. Socket			2xC19 + 3xC13 + Terminal	
ECO mode	Present				
Frequency Converter	Present				
<b>BATTERY</b>					
Battery Type	Maintenance-free lead acid batteries				
Charge Time (Built-in batteries)	6-8 hour 90% capacity (typical)				
Charge Current	2A (max.)		12A (max.)		15A (max.)
Voltage	24VDC	48VDC	72VDC	240VDC (Adjustable)	
QTY	2 x 12V / 9Ah	4 x 12V / 9Ah	6 x 12V / 9Ah	16/18/20pcs (Adjustable)	
Cold Start	Present				
<b>DISPLAY</b>					
LED Display	Online Mode, Battery Mode, Eco Mode, Bypass Mode, Battery Low, Battery Bad, Overload & UPS Failure				
LCD Display	Input / Output Voltage and Frequency, Load %, Battery Voltage, Internal Temperature, Remaining Back up Time				
<b>ALARMS</b>					
Mains fault, Low Battery, Overload, UPS Failure					
<b>PROTECTION</b>					
Short circuit, Over temperature, Overload, High voltage, Low battery, EPO					
<b>COMMUNICATION****</b>					
Standard	RS232, USB, EPO			RS232, USB, EPO, RS485	
Optional	SNMP and Relay Card				
<b>ENVIRONMENT</b>					
Operating Temperature / Storage Temperature	0°C ~ +40°C / -25°C ~ +55°C				
Humidity	% 0-95 (non-condensing)				
Altitude	0 - 1500 m		0 - 1000 m		
Noise Level (1m distance)	< 55 dBA		< 45 dBA		< 50 dBA
Protection Level	IP20				
<b>PHYSICAL</b>					
Net Weight (kg)	11.3	19.5	26.2	15	17
Dimensions (mm) WxDxH (Rack)	440x460x86.5	440x460x86.5	440 x 600 x 86.5	440 x 621.5 x 86.5	
<b>STANDARDS</b>					
EN 62040-1(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.

\*\*\*\*Please contact to your sales representative for communication options. INFORM keeps the right to change the specifications without any notice