

EATON

Powerware

Powerware 9370 Uninterruptible Power System

Product Focus

200-500 kVA



Product Snapshot

Technology: Series 9 (double conversion on-line)
Rating: 200-250 kVA 400-500 kVA
Voltage: 3x380/400/415 Vac
Frequency: 50/60 Hz
Backup time: 5 min up to several hours

Product highlights:

- Hot Sync™ parallel up to 4 units
- Completely digital control, using
- CAN bus technology (typically for harsh environments)
- Excellent output voltage stability, ideal for 100% step loads, also unbalanced and nonlinear loads
- Internal static and manual bypass
- Inherent reliability through distributed control, power supply and cooling system redundancy
- Easier maintenance with front access for installation and service
- Software suite with full compatibility
- ABM™ providing up to 50% longer battery life
- Backfeed protection

Standard features for 400-500 kVA product

- 12 pulse rectification
- Bottom & Top cable entry

Options:

- ConnectUPS SNMP/web adapter
- Additional relay card
- Modem adapter
- Modbus / Jbus adapter
- X-Slot expansion cards for enhanced connectivity
- Remote display panel Isolation and voltage adaption transformers
- Matching external battery cabinets
- External maintenance bypass facility

Additional options for 200-250 kVA product

- 12 pulse rectification and harmonic filters
- Top cable entry

Typical applications:

- Industrial controls
- Manufacturing machinery
- Process equipment
- Transportation
- Security
- Telecommunication
- Large computer systems

The Powerware 9370 incorporates the latest technology double-conversion, on-line design and provides complete isolation from all incoming utility and generator related power problems. This ensures the highest level of protection for your critical load.

Compact design with the most advanced technology

Complete digital control is implemented through an internal CAN bus. The advanced UPS control system is integrated into a very compact cabinet and provides a machine that is optimized in terms of layout and component choice. This makes 9370 a market-leading product, with an extremely attractive price-performance ratio.

Performance and reliability

The new Powerware 9370 design includes extensive component and subsystem redundancy, HotSync™ parallel capability for both redundancy and capacity upgrade and Advanced Battery

Management (ABM)™, all of which serve to enhance UPS reliability and performance. In addition, excellent output voltage stability with 100% step loads, unbalanced loads, or nonlinear loads is provided. All these technical features, together with continuous UPS monitoring make 9370 a world class UPS.

Any kind of critical application

With its robust design, Powerware 9370 can operate in a range of environments, for computer or industrial applications. Its rugged construction is combined with advanced communication capabilities for comprehensive monitoring, management and shutdown with local or network connections.

An extensive range of UPS options also allows the Powerware 9370 to satisfy more specialised power requirements, such as reduction of input harmonic distortion (THDI), galvanic isolation and adaption to the power plant where the UPS is installed.

Technical Specifications

Rating	200 kVA	250 kVA	400 kVA	500 kVA
Capacity (kVA/kW)	200/160	250/200	400/320	500/400
Dimensions WxHxD (mm) 6 pulse	1220x1900x860			
Dimensions WxHxD (mm) 12 pulse	1620x1900x860		2100x1900x860	
Weight 6 pulse (kg)	1130			
Weight 12 pulse (kg)	1820		2880	
Input connection	Hardwire		Hardwire (bottom & top)	
Output connection	Hardwire		Hardwire (bottom & top)	
Battery	External 192 cells		External 240 cells	
Operational				
Nominal input voltage (VAC)	220/380, 230/400, 240/415 Vac three phase			
Input voltage range	342 to 456 Vac			
Frequency	50/60 Hz (45-65 Hz)			
Input power factor	0.83 lag (full load), 0.9 with filter			
Input current distortion (THD)	30% 6P, 7% 12P, 4% 12P + filter		< 7%	
Nominal output voltage	220/380, 230/400, 240/415 Vac three phase			
Output voltage regulation	±1% static; ±5% dynamic 100% load change, <3 ms recovery time			
Overload capacity	101-125% for 10 min (on-line); 126-150% for 1 min (on-line); 1000% for 1 cycle (bypass)			
Efficiency nominal load	91%	92%	93%	94%
Option	Parallel capacity/redundancy; ABM; backfeed protection; isolation transformer; external bypass; external battery cabinets; transformers/autotransformers for voltage adaption			
	12 pulse; input filters; top cable entry			
User interface				
LCD Display	Graphical LCD display showing status, measurements of performance, alarms and event log			
Led	UPS on, on battery, on bypass, notice, alarm			
Standard communication ports	1xRS232 for local support; 4xAS/400 relays; 4 programmable input: generator on, external bypass, inverter on/off, environment alarm; Remote Emergency Power Off; 4xempty connectivity slots for optional cards			
Optional	RS232 extension, SNMP/Web, Modbus/Jbus, modem, environmental monitoring probe, Remote ViewUPS display panel, additional relays			
Environmental				
Operating temperature	0°C – +40°C			
Storage temperature	-25°C – +60°C			
Altitude	< 1000 m			
Audible noise at 1 meter (dBA)	70 dBA (According to ISO 3747)		72 dBA (According to ISO 3747)	
Certification				
Markings	CE			
Safety	EN 60950, EN 62040-1-1			
EMC	EN 50091-2			
Performance and Test	EN 62040-3			

Due to continuing product improvement programs, specifications are subject to change without notice.

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