

EATON

Powerware

Powerware 9370 Uninterruptible Power System

Product Focus

200 - 500 kVA three phase UPS for
ICT and industrial applications



Snapshot

Power Rating:	200 - 500 kVA
Voltage:	3x380/400/415 Vac
Frequency:	50/60 Hz
Topology:	Series 9 (Double conversion on-line)

Features

- Hot Sync™ parallel up to 8 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 redundant
- Easier maintenance with front access for installation and service
- Software Suite for full compatibility

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.

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 optimised in terms of layout and component choice. This makes PW9370 a market-leading product, with an extremely attractive price-performance ratio.

The PW9370 design includes extensive component and subsystem redundancy, HotSync™ parallel capability for both redundancy and capacity increasing and the Advanced Battery Management (ABM™) feature, all of which serve to enhance UPS reliability and performance.

Typical Applications

- Security
- Server and Data centres
- Transportation
- Telecommunication
- Large computer systems
- Process equipment
- Manufacturing machinery
- Industrial controls

Options

- X-Slot expansion cards for enhanced connectivity
- ConnectUPS SNMP/Web adaptor
- Additional relay card
- Modem adaptor
- Modbus/Jbus adaptor
- Remote ViewUPS display panel
- ABM™ providing up to 50% longer battery life
- 12 pulse rectification and harmonic filters
- Isolation and voltage adaption transformers
- Top cable entry
- Backfeed protection
- Matching external battery cabinets
- External maintenance bypass facility
- PowerVision software

Technical Specifications

POWERWARE 9370				
Rating	200 kVA	250 kVA	400 kVA	500 kVA
Part number	PW9370-200	PW9370-250	PW9370-400	PW9370-500
Capacity (kVA/kW)	200/160	250/200	400/320	500/400
Dimensions WxHxD(mm) 6 pulse	1220 x 1900 x 860			
Dimensions WxHxD(mm) 12 pulse	1620 x 1900 x 860		2140 x 1900 x 860	
Weight (kg) 6 pulse	1250	1300		
Weight (kg) 12 pulse	1650	1700	2880	2880
Input connection	Hardwired			
Output connection	Hardwired			
Battery	External			
Operational				
Nominal input voltage (Vac)	220/380, 230/400, 240/415 Vac three phase			
Input voltage range	342 to 456 Vac			
Operating 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			
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 (online); 126-150% for 1 min (online); 1000% for 1 cycle (bypass)			
Efficiency	93%			
Option	Parallel capacity/redundancy; ABM; backfeed protection; isolation transformer; 12 pulse; input filters; external bypass; external battery cabinets; transformers/autotransformers for voltage adaption; 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	1 x RS232 for local support; 4 x AS/400 relays; 4 programmable inputs; generator on, external bypass, inverter on/off, environment alarm; Remote Emergency Power Off; 4 x empty connectivity slots for optional cards			
Optional	RS232 extension, SNMP/Web, Modbus/Jbus, modem Remote ViewUPS display panel, additional relays			
Environmental				
Operating temperature	0°C to +40°C			
Storage temperature	-25°C to +60°C			
Altitude	< 1000 m			
Audible noise at 1 metre	< 70 dBA (according to ISO 3747)		< 72 dBA (according to ISO 3747)	
Certification				
Markings	CE			
Safety	EN 50091-1-1, IEC 60950, IEC 62040-1-1, AS/NZS 60950:2000			
EMC	EN 50091-2, IEC 62040-2, AS 62040.2:2001, C-Tick			

This guide provides typical application information. Battery run times are approximate and may vary with equipment, configuration, battery age, temperature, etc.

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