

POWERWARE® 9370

Three-phase UPS for ICT and Industrial Applications

Product highlights:

- ▶ 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 redundancy
- ▶ Easier maintenance with front access for installation and service
- ▶ Software suite with full compatibility

Options:

- ▶ ConnectUPS SNMP/web adapter
- ▶ Additional relay card
- ▶ Modem adapter
- ▶ Modbus / Jbus adapter
- ▶ X-Slot expansion cards for enhanced connectivity
- ▶ Remote 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

Typical applications:

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



Product snapshot

Technology:	Series 9 (double conversion on-line)
Rating:	160-250 kVA
Voltage:	3x380/400/415Vac
Frequency:	50/60 Hz
Backup time:	5 min up to several hours

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 PW9370 a market-leading product, with an extremely attractive price-performance ratio.

Performance and reliability

The new PW9370 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 PW9370 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.

Powerware 9370 a new, world class UPS for high availability, business continuity applications.

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Uninterruptible Power System

TECHNICAL SPECIFICATIONS			
Rating	160 kVA	200 kVA	250 kVA
Capacity (kVA/kW)	160/128	200/160	250/200
Dimensions WxHxD (mm) 6 pulse	1220x1900x860	1220x1900x860	1220x1900x860
Dimensions WxHxD (mm) 12 pulse	1620x1900x860	1620x1900x860	1620x1900x860
Weight 6 pulse (kg)	1130	1130	1130
Weight 12 pulse (kg)	1820	1820	1820
Input connection	Hardwire	Hardwire	Hardwire
Output connection	Hardwire	Hardwire	Hardwire
Battery	External	External	External
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), 0.95 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 (on-line); 126–150% for 1 min (on-line); 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	1x RS232 for local support; 4x AS/400 relays; 4 programmable input: generator on, external bypass, inverter on/off, environment alarm; Remote Emergency Power Off; 4x 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 – +40°C		
Storage temperature	-25°C – +60°C		
Altitude	<1000 m		
Audible noise at 1 meter (dBA)	70 dBA (According to ISO 3747)		
Certification			
Markings	CE		
Safety	EN 50091-1-1, IEC 60950, IEC 62040-1-1		
EMC	EN 50091-2 , IEC 62040-2		

Powerware solutions are available from small offices to data centres, including UPSs, power management software and service.

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