



# Powerware

Powerware 9355 10-40 kVA



Power protection  
you can count on.

## Power protection you can count on

The new Powerware 9355 is a three phase double conversion online UPS for protection of critical systems. It combines good looks with uncompromised efficiency, reliability and provides an affordable solution for 24x7 power protection across a wide range of critical IT and electrical engineering applications. The 9355 covers the power range 10–40 kVA and can be paralleled for redundancy and capacity using Eaton's patented Hot Sync<sup>®</sup> technology.



1. POWER FAILURE



2. POWER SAG



3. POWER SURGE



4. UNDERVOLTAGE



5. OVERVOLTAGE



6. SWITCHING TRANSIENT



7. LINE NOISE



8. FREQUENCY VARIATION



9. HARMONIC DISTORTION



The Powerware 9355 provides an impressive efficiency of 91 percent, which reduces utility costs, extends battery runtimes and produces cooler operating conditions. It is scalable to suit a wide range of applications so the UPS can grow with corporate demands.

The UPS features Eaton's proprietary ABM<sup>®</sup> technology, which significantly increases battery life and includes self diagnostic capabilities that alerts the user of potential problems before they become costly incidents.

For added capacity or redundancy, the system fully supports Powerware Hot Sync<sup>®</sup> technology for remarkably reliable paralleling of up to four equivalent UPS modules.

Boasting a sleek tower design half the size of comparable three-phase UPSs on the market, the Powerware 9355 ensures the highest level of protection from power disturbances while also reducing the demand for space in crowded data centers.

The system delivers a 0.9 output power factor and includes eighteen types of output receptacles offering IT and facility managers simple installation that eliminates the need for running new conduit and wiring.

Powerware 9355 combines style and small footprint with high performance. With its elegant black casing and its fully graphic, blue backlit LCD display, its strikingly modern appearance sets it clearly apart from the computer-grey masses of older equipment usually found in offices and server rooms.

### Reliable

The 9355 series 9 UPS, protects from all nine types of most common power disturbances.

With Eaton's patented Hot Sync technology, two or more UPS units can be paralleled to provide protection of the load even if one of the units is out of commission for service. The 9355 design incorporates well thought-through solutions geared to keep its total cost of ownership at the lowest possible level.

For example, up to 93% efficiency, it provides a 0.99 input power factor and is

rated for 0.9 output power factor loads.

### Easy to use

Floor space is expensive. That is why the 9355 is designed in a slim, compact tower to provide maximum power per square metre. Its small foot-print also means that you will be able to increase your UPS capacity considerably without expanding your present server room with easier transportation and installation.

Even the standard battery configuration provides integral 1 minutes of backup time (at 20 kVA computer load), and you can extend it to several hours by adding extra battery packs.

The fully graphic LCD display with blue backlight makes the 9355 easy to control and monitor. For example, the inputs and outputs are configurable, enabling UPS customisation for the critical application.

With bundled software suite and a wide range of communication options, the 9355 is easy to run with remote using a variety of protocols.

The 9355 offers you confidence that lets you stop worrying about power.

Powerware 9355 features inherent reliability. Only the most reliable hardware and technologies are used in their manufacture.

## Powering your World

### Active power factor control for less disturbances in low-voltage networks

Thanks to their cutting-edge active-front rectifier, the 9355 provides a perfect sine-wave and 0.99 input power factor. This means that they avoid disturbances in the feeding mains network that energy converters tend to cause. With minimal current distortion (2-5% THDi) the 9355 is extremely "mains friendly" and do not require special harmonics filtering.

### Hot Sync—unbreakable security

Hot Sync parallels two or more UPS units. Units are capable of load sharing without the need for communications wiring, hitherto the most vulnerable point of failure in all UPS systems. Each Powerware module has the ability to synchronise and support the critical load independently of the other modules. Thus all critical loads are supported by UPS-grade power, whatever maintenance needs—scheduled or unscheduled—should arise.

Hot Sync—redundant is an N + 1 module system allowing full maintenance to be performed on all modules and the parallel cabinet without the need for an external maintenance bypass and without having to remove the critical load from conditioned power.

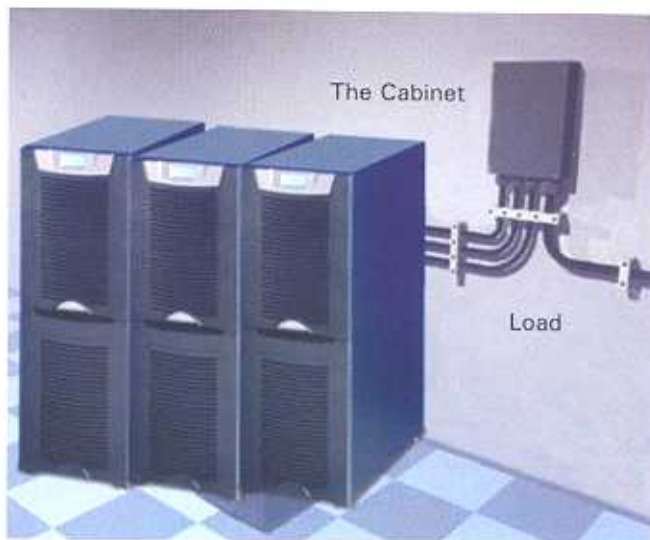
### ABM—significantly more battery life

ABM constantly monitors battery charge status and only recharges when necessary. Compared with the traditional trickle-charging method, this reduces battery corrosion enough to provide significantly longer battery lifetimes! ABM compensates for changes in ambient temperature or proper charging.

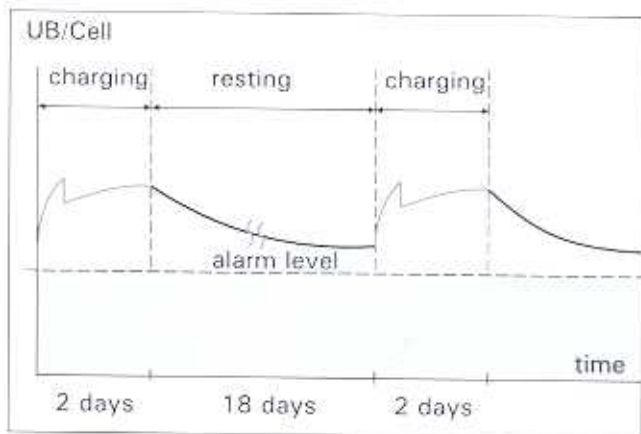
Battery monitoring provides real-time information on battery string health and remaining runtime. This allows you to proactively plan maintenance operations instead of reacting to emerging problems. UPS tests the batteries regularly with the rectifier connected, thus providing consistent test results regardless of inverter load at testing time. Moreover, as the load is never supported by the battery alone, the UPS will keep your critical load adequately protected at all times.

### Communication options—connect anywhere

ConnectUPS Web/SNMP card is complete UPS monitoring, control and shutdown solution in a networked IT environment. In case of alert the Web/SNMP card can notify users and administrators through email and SNMP traps. In case of prolonged power failure the protected computer systems can be shut down in a graceful manner with NetWatch and LaneSafe Software.



Hot Sync Redundant / Capacity



ABM™ with the intermittent charging method



Web/SNMP card

# Technical Specifications

Rating	10 kVA	12 kVA	15 kVA	20 kVA	30 kVA	40 kVA
Part number	9355-10-N	9355-12-N	9355-15-N	9355-20-N	9355-30-N	9355-40-N
Capacity (kVA/kW)	10 / 9	12 / 10.5	15 / 13.5	20 / 18	30 / 27	40 / 36
Dimensions HxWxD (mm) With extra runtime	1684 x 494 x 762					
Input connection	UPS input hardwired, Bypass input (redundancy) hardwired					
Output connection	3-ph (9355), UPS output hardwired					
<b>Operational</b>						
Nominal input voltage (Vac)	380 / 400 / 415 Vac three phase					
Input voltage range	± 20% from nominal at 100% load, -50%, + 20% from nominal at 50% load					
Operating frequency	50/60 Hz (45 to 65 Hz)					
Input power factor	0.99					
Input current distortion	2-5% THD in nominal load condition					
Nominal output voltage	380 / 400 / 415 Vac					
Output voltage regulation	± 2% static; ± 5% dynamic at 100% load change, < 1 ms response time					
Overload capacity	150% for 1 min / 125% for 10 min					
Efficiency	93% with linear load					
<b>User interface</b>						
LCD display	Graphical LCD with blue backlight; English, French, German and Spanish languages std.					
LED	4 LED					
Standard communication ports	1 x RS232 for local support, 2 x XSlot (empty); 1 x relay contact, 1 x emergency power-off input, 2 x environmental input					
Optional	External battery cabinets; Temperature Probe (EMP) Slot connectivity: Web/SNMP, Modbus/Jbus, Relay, Hot Sync, RS 232 cards					
<b>Environmental</b>						
Operating temperature	0°C to +40°C					
Storage temperature	-15°C to +45°C					
Altitude	< 1000 m					
Audible noise	< 50 dB(A) at 1 meter (noise less room); 53 dB(A) according to ISO 7779					
<b>Certification</b>						
Quality	ISO 9001: 2000 and ISO 14001:1996					
Markings	CE and GOST marking					
Safety	IEC 62040-1-1, IEC 60950, EN 62040-1-1					
EMC	EN 50091-2 Class A					

For more product information please contact us:



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