



# Powerware

## Powerware 9155/9355 Uninterruptible Power System

Product Focus

Stand-alone UPS solutions up to 40kVA  
Hot Sync® UPS parallel systems with redundancy/capacity



8-15 kVA Models



20-40 kVA Models

### Snapshot

Power Rating:	8-40 kVA
Voltage:	220-240/380-415 Vac
Frequency:	50/60 Hz
Topology:	Series 9 (Double conversion on-line)

Powerware 9155 and 9355 are Series 9 UPS designed to protect high 0.9 p.f. rated, critical computers and servers. The centralised UPS protection is an essential part of IT infrastructure in today's IT, telecom, healthcare, banking and industrial automation applications. The Powerware 9155 and 9355 both feature active input power factor control (PFC) and low 2-5% Total Harmonic Distortion (current) with IGBT rectifier technology

The Powerware 9155 and 9355 operate using the unique ABM™ function. While traditional UPS charges batteries continuously, ABM™ charges batteries only when necessary, thus preventing battery corrosion. The exceptional ABM™ function prolongs the service life of batteries by up to 50%.

### Features

- Hot Sync® redundancy
- ABM™ providing up to 50% longer battery life time
- Active input Power Factor Correction (PFC) providing 2-5% THD(i) harmonics
- High 0.9 p.f. output rating for server and computer loads
- Market leading internal battery runtime
- User friendly graphical LCD display with light blue back light
- Web/SNMP and ModBus monitoring capability
- Software Suite bundled

### Typical Applications

- High-capacity computers
- Server rooms
- Networks
- Process automation, control equipment
- Telecommunication applications
- Offshore, military and special projects

### Options

- System Parallel Cabinets for Hot Sync® Capacity/Redundancy Solutions
- "UPS Centre" distribution cabinets for small computer room applications
- External Maintenance Bypass Switches
- Extended Battery Cabinets
- X Slot connectivity options
- PowerVision software



# Technical Specifications

## POWERWARE 9155 & 9355

Rating	8 kVA	10 kVA	12 kVA	15 kVA	20kVA	30kVA	40kVA
Part number	9155-8-S 9155-8-N 9355-8-N	9155-10-S 9155-10-N 9355-10-N	- 9155-12-N 9355-12-N	- 9155-15-N 9355-15-N	- 9155-20-N 9355-20-N	- 9155-30-N 9355-30-N	- - 9355-40-N
Capacity (kVA/kilowatts)	8 / 7.2	10 / 9	12 / 10.8	15 / 13.5	20 / 18	30 / 27	40 / 36
Dimensions WxDxH (mm)	305x702x817	305x702x817	305x702x817	305x702x817	494x762x1684	494x762x1684	494x762x1684
With extra runtime	305x702x1214	305x702x1214	305x702x1214	305x702x1214	-	-	-
Weight (kg)							
UPS without Batteries	75	75	75	75	200	200	217
UPS with internal 1xBAT	155	155	160	160	300	N/A	N/A
UPS with internal 2xBAT	265	265	270	270	400	400	N/A
UPS with internal 3xBAT	N/A	N/A	N/A	N/A	500	500	517
UPS with internal 4xBAT	N/A	N/A	N/A	N/A	600	600	617
Input connection	Hardwired	Hardwired	Hardwired	Hardwired	Hardwired	Hardwired	Hardwired
Output connection	Hardwired	Hardwired	Hardwired	Hardwired	Hardwired	Hardwired	Hardwired
* Typical runtime with 1xBAT	15 min	10 min	8 min	5 min	5 min	N/A	N/A
Typical runtime with 2xBAT	33 min	25 min	20 min	15 min	13 min	7 min	N/A
Typical runtime with 3xBAT	N/A	N/A	N/A	N/A	22 min	13 min	8 min
Typical runtime with 4xBAT	N/A	N/A	N/A	N/A	31 min	20 min	12 min
Operational							
Nominal input voltage (Vac)	S models: 220/230/240 Vac single phase; N models: 220/380, 230/400, 240/415 Vac three phase						
Input voltage range	175/305V - 276/478V at 100% load, 115/200V - 276/478V at 50% load						
Operating frequency	50/60 Hz (45 to 65 Hz)						
Input power factor	0.99						
Input current distortion	5% THD in normal network condition						
Nominal output voltage	220/230/240 VAC single phase (9155), 380/400/415 three phase (9355)						
Output voltage regulation	2% static; 5% dynamic at 100% load change, < 1 ms response time						
Overload capacity	150% for 5 sec / 125% for 1 min (online), 1000% for 20 msec (bypass)						
Efficiency	92% with computer load; 93% with linear load						
User interface							
LCD-display	Graphical LCD with blue backlight, English, German and Spanish languages, extendable						
LED	4 LED for notice and alarm						
Standard communication ports	1 x RS232 for local support, 2 x X-slot (empty); 1 x relay contact, 1 x emergency power off input, 2 x environmental input						
Optional	External battery cabinets; isolation transformer; external mechanical bypass switch; X-slot; Web/SNMP, Modbus/Jbus, relay card, RS232 port, Hot Sync card						
Environmental							
Operating temperature	0°C to +40°C						
Storage temperature	-15°C to +40°C						
Altitude	< 1000 m at +40°C, < 3000 m at +25°C						
Audible noise at 1 metre	< 50 dB(A) at 1 metre						
Certification							
Quality	ISO 9001; 2000 and ISO 14001:1996						
Markings	CE and GOST markings / C-Tick						
Safety	IEC 62040-1-1, IEC 60950, EN 62040-1-1						
EMC	EN 50091-2 Class A, C-Tick						

This guide provides typical application information.

\* Battery run times are approximate and may vary with equipment, configuration, battery age, temperature, etc. Runtimes at 0.7 pf

In the interests of continual product improvement all specifications are subject to change without notice.

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