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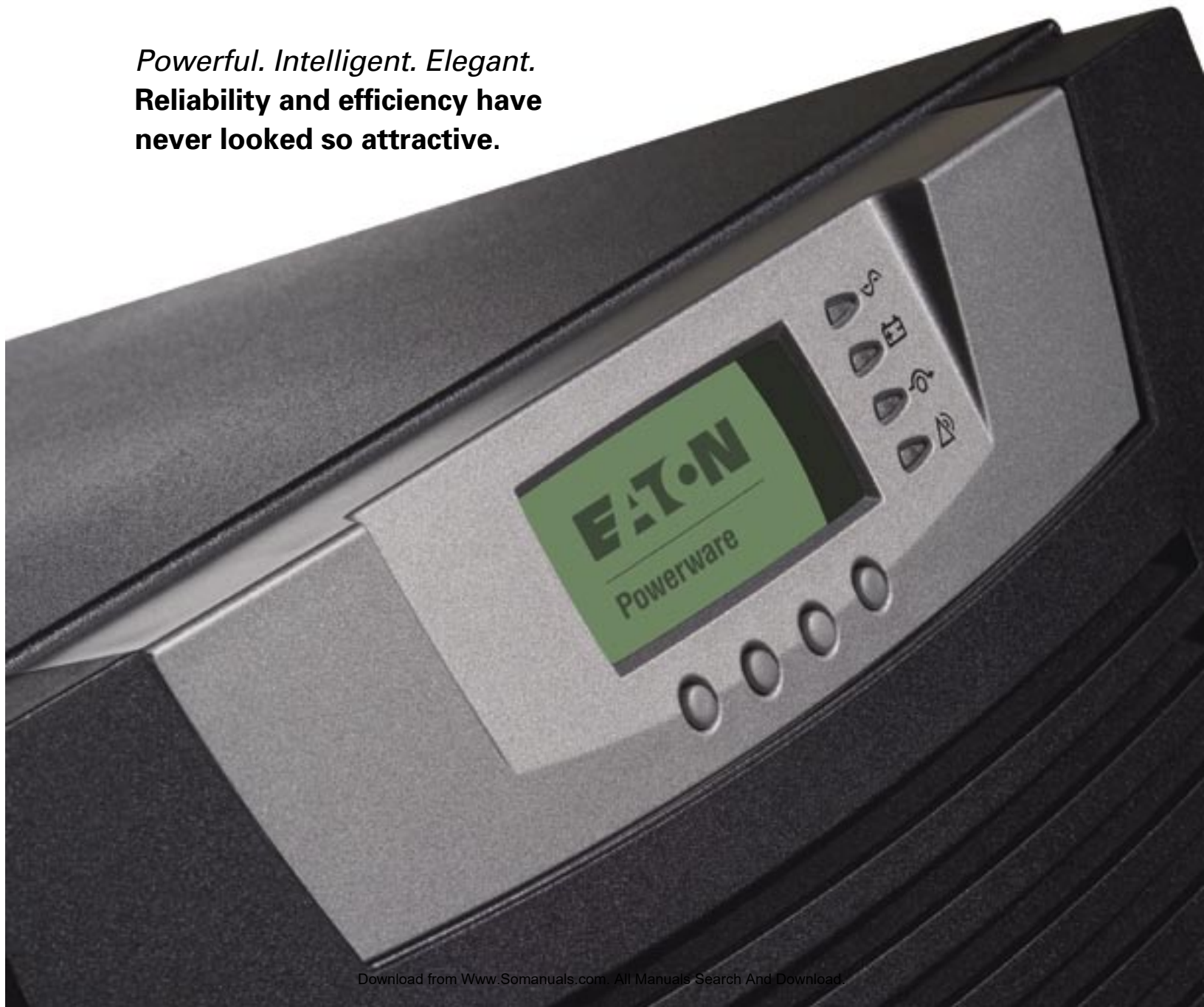
Powerware

Powerware® 9155 Single-phase UPS
Powerware 9355 Three-phase UPS

Product Focus

8-15 kVA

Powerful. Intelligent. Elegant.
**Reliability and efficiency have
never looked so attractive.**



Product Introduction



Features

- Protects connected equipment from all nine of the most common power problems with true online, double-conversion topology
- Delivers maximum power density in a compact tower design, only 12" wide and 33" deep, including batteries
- Provides more real wattage in less space with a 0.9 power factor—protecting more equipment for every utility dollar, and leaving more room for expansion
- Delivers extra capacity or redundancy through patented Powerware Hot Sync® paralleling of multiple modules
- Significantly increases battery life through microprocessor-controlled ABM® technology
- Provides 0.99 power factor and generator friendly <5% total harmonic distortion using an active IGBT rectifier to control the input power factor
- Ensures data and system integrity with complete power management software for remote monitoring, management, and shutdown
- Provides investment protection and peace of mind with an Eaton factory limited warranty, technical support, and optional service plans

Product Snapshot

Technology:	9155: Split-phase double-conversion online UPS 9355: Three-phase double-conversion online UPS
Power Rating:	9155: 8 kVA, 10 kVA, 12 kVA, 15 kVA at 0.9 power factor 9355: 10 kVA and 15 kVA at 0.9 power factor
Input Voltage:	9155: 200–240 Vac with Neutral or with optional input isolation transformer 9355: 208V/120V or 220V/127V
Output Voltage:	9155: 100/200, 110/220, 120/240 Vac 180° phase displacement; 120/208, 127/220 Vac 120° phase displacement 9355: 208V/120V or 220V/127V 480:120V/208V or 600:120/208 with input isolation transformer (at 60 Hz only)
Frequency:	50/60 Hz auto-sensing
Dimensions:	Two-high configuration: 32.2" H x 12.0" W x 32" D Three-high configuration: 47.8" H x 12.0" W x 33.5" D
Configuration:	Small-footprint tower, black
Battery Backup:	9155: Up to 29 minutes typical, extendable up to four hours 9355: Up to 22 minutes typical, extendable up to three hours <i>See Battery Back-up Times chart</i>

With advances in miniaturization and processing power, a single rack of equipment demands more power than ever—and more equipment will be served by dual cord power supplies. It's a challenge to provide power protection for expanding loads in shrinking spaces.

Fortunately, technology advancements have also raised the density per square foot of power protection systems. The Powerware 9155 and new Powerware 9355 uninterruptible power systems (UPSs) deliver premium levels of efficiency, reliability and flexibility—all in a sleek tower half the size of most competitor units on the market today.

These double-conversion, online UPSs resolve all nine common utility power problems and supply clean, continuous power to all connected equipment. Even when presented with the most severe power problems, power output remains stable. And if the utility power goes out altogether, there is no delay transferring to backup power.

These capabilities make the Powerware 9155 and Powerware 9355 ideal for protecting essential data center, communications and electrical engineering infrastructures in corporate, telecom, healthcare, banking, public sector and industrial applications.



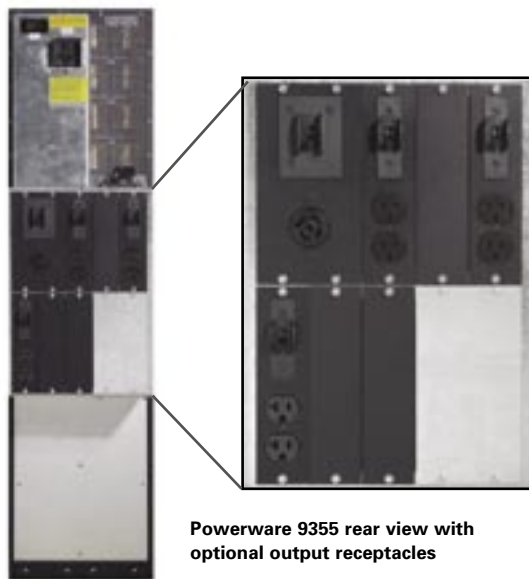
Premium power protection is now easier than ever.

With raised-floor real estate at a premium, you will appreciate that these UPSs are only 12" wide and 33" deep, including internal batteries. With such a small footprint, you have more location options, and more space is available for future expansion.

Equipment installation is easy, essentially plug-and-play. You can order either UPS with your choice of output receptacles with more than 17 types. To change or move data center equipment, you simply unplug from the old receptacle, plug into a new one, and go. No need for an electrician to run new conduit and wiring.

Scalable architecture meets current and future load requirements.

Powerware 9155 UPSs are available in four models (8, 10, 12, and 15 kVA). Powerware 9355 UPSs come in 10 and 15 kVA models, so you can choose the configuration that most closely meets your capacity requirements and price point.



Powerware 9355 rear view with optional output receptacles

And you can scale from there. Using our signature Powerware Hot Sync paralleling technology, up to three (Powerware 9155) or up to four (Powerware 9355) equivalent UPS modules can be paralleled for extra capacity or redundancy. A 15 kVA UPS, for example, can grow to support loads of up to 45 kVA. There's no dependence on communications wiring among those UPS modules.

Battery innovations optimize battery performance and service life.

Standard internal batteries provide power until auxiliary power takes over or systems are gracefully shut down. Battery runtime can be extended to hours by adding matching Extended Battery Modules (EBMs).

POWERWARE UPS BACKUP TIMES (IN MINUTES)

VA	Watt	UPS + Internal 32 Battery	(1) EBM 64	(2) EBM 64	(3) EBM 64	(4) EBM 64	UPS + Internal 64 Battery	(1) EBM 96	(2) EBM 96	(3) EBM 96
15000	13500	4.6	23.0	43.0	65.1	88.6	13.3	43.0	76.7	113
14500	13050	4.9	24.1	45.2	68.3	93.0	14.1	45.2	80.5	119
14000	12600	5.2	25.2	47.3	71.5	97.4	14.9	47.3	84.2	125
13500	12150	5.5	26.4	49.4	74.7	102	15.8	49.4	88.1	130
13000	11700	5.8	27.6	51.6	78.1	106	16.7	51.6	92.0	136
12500	11250	6.1	28.8	54.0	81.6	111	17.6	54.0	96.2	142
12000	10800	6.5	30.2	56.5	85.5	116	18.6	56.5	101	149
11500	10350	6.9	31.6	59.3	89.7	122	19.2	59.3	106	156
11000	9900	7.3	33.3	62.4	94.4	129	20.2	62.4	111	164
10500	9450	7.8	35.1	65.9	99.6	136	21.4	65.9	117	174
10000	9000	8.4	37.2	69.8	106	144	22.6	69.8	124	184
9500	8550	9.1	39.6	74.2	112	153	24.1	74.2	132	196
9000	8100	9.9	42.3	79.4	120	163	25.7	79.4	141	209
8500	7650	10.8	45.5	85.2	129	175	27.6	85.2	152	225
8000	7200	11.9	49.1	91.9	139	189	29.8	91.9	164	242
7500	6750	13.1	53.2	99.7	151	205	32.3	99.7	178	263
7000	6300	14.6	58.0	109	164	224	35.2	109	194	286
6500	5850	16.3	63.5	119	180	245	38.6	119	212	314
6000	5400	18.4	70.0	131	198	270	42.5	131	234	346
5500	4950	20.1	77.6	145	220	300	47.2	145	259	383
5000	4500	22.4	86.6	162	245	334	52.6	162	289	428
4500	4050	25.2	97.4	182	276	376	59.2	182	325	-
4000	3600	28.6	110	207	313	426	67.1	207	369	-
3500	3150	32.8	127	238	359	-	77.0	238	423	-
3000	2700	38.3	148	277	418	-	89.7	277	-	-
2500	2250	45.6	176	329	-	-	107	329	-	-

Note: Backup times are approximate and may vary with equipment, configuration, battery age, temperature, etc.



Powerware 9155/Powerware 9355 EBM

After 15 years of in-service experience, Eaton has real-world proof that ABM technology can significantly increase battery service life.

Powerware 9155 and Powerware 9355 UPSs also use sophisticated technologies that maximize the health and service life of batteries:

- ABM technology uses a unique three-stage charging technique that significantly extends battery service life and optimizes recharge time, compared to traditional trickle charging.
- Temperature-compensated charging monitors battery temperature and adjusts the charge rate accordingly, which properly charges the battery and greatly extends battery life.
- An integrated battery management system tests and monitors battery health and remaining lifetime, and provides advance notification to guide preventive maintenance.

Unlike heavy, old-style batteries, Eaton's are easily field-replaceable. One person, working alone, can replace a battery without disrupting data center operations or power to protected equipment.

Advanced design delivers unequalled power performance.

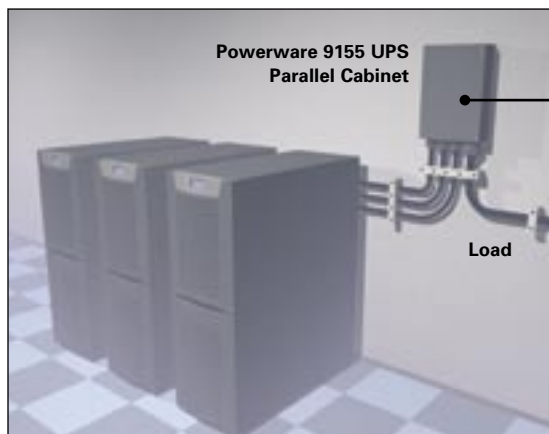
The innovative design of these UPSs deliver the industry's best performance combination of efficiency, input current distortion, input power factor, and output power factor.

Lower costs, lower temperatures. High efficiency (greater than 90 percent across all load ranges) reduces utility costs, extends battery runtimes, and produces cooler operating conditions.

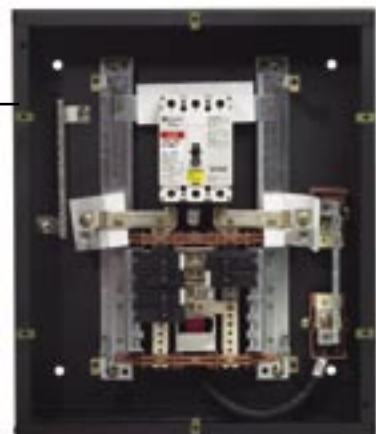
Generator-friendly design. Total input harmonic distortion (THD) remains below five percent without compromising overall efficiency. The result is maximum transfer of power between source and protected load, and exceptional compatibility with auxiliary generators.

More real power. On the output side, high power factor enables these UPSs to provide their full power capability to modern IT equipment that may have a wide range of leading and lagging power factors. And, with a 0.99 input power factor, these UPSs avoid the disturbances that energy converters tend to cause.

Powerware Hot Sync Redundant/Capacity



Inside view of Powerware 9155 Parallel Cabinet



Protect your investment

Rest easy, knowing that your UPS is always on the job.

While it protects your critical systems, the UPS itself is protected in several ways:

Self-diagnosis. The UPS constantly monitors its own operation, such as voltage, temperature or function of internal elements—and sends alarms or takes action if it detects a potential problem. You'll know your UPS is always performing up to specifications to protect your equipment.

Self-correction. If it senses an issue—planned or unplanned—the UPS instantly transfers the power path to a bypass source, with zero interruption in power. When the alarm condition passes, the UPS automatically reverts from bypass to normal operation.

Remote monitoring. You can have Eaton specialists securely monitor your Powerware 9155 and Powerware 9355 UPSs around the clock with eNotify service, or you can monitor your own UPSs over your LAN or the Internet. Either way, you'll always be informed about conditions in your power protection infrastructure.

Redundancy. Using Powerware Hot Sync technology, you can configure up to N+3 redundancy. Any module can serve as backup for any other, with no interruption or downtime. For instance, you could perform full maintenance on any UPS without having to remove any loads from conditioned power.

Most other paralleling systems on the market use a top-down configuration; if the master fails, the subsidiary units fail. With Eaton's patented approach, each UPS module is independent yet synchronized with the others. There is no single point of failure.

Have central control and visibility of UPS systems.

The Powerware 9155 and Powerware 9355 are shipped with a CD that includes Powerware LanSafe™ power management software and a 30-day trial version of Powerware PowerVision® UPS performance analysis and monitoring software. Using an intuitive, graphical interface and SNMP (Simple Network Management Protocol), administrators can:



Powerware Software Suite

- Securely monitor UPS and battery performance over your existing Ethernet network and the Internet.
- Establish prioritized shutdown of network devices and client/server applications.
- Test all networked UPS systems from one node.
- Analyze trends and network conditions.
- Stay informed of potential power problems by pager and e-mail.

Connectivity options offer maximum flexibility.

The standard unit is equipped with an RS-232 serial port to communicate with power management software. You can customize your UPS by adding one or two interface cards for other applications:

Monitor the UPS from anywhere. Connect the UPS to the Ethernet network and Internet for secure monitoring and management using a standard Web browser or SNMP.



ConnectUPS™ Web/SNMP Card

Interwork with your existing Building Management System.

A Modbus® Card enables real-time monitoring of UPS systems through a Building Management System or Industrial Automation System.



Modbus Card

Gather information from relay contact devices. Provide a dry-contact interface between the UPS and any relay-connected device, including the IBM® e-server® iSeries and a variety of industrial applications.



Relay Interface Card

Independently manage diverse servers. A Multi-Server card enables up to six serially connected devices of mixed operating systems to be independently managed and controlled by a single UPS.



Multi-Server Card

Monitor environmental conditions. An optional Environmental Monitoring Probe remotely monitors temperature, humidity, and two user-supplied contacts/sensors, such as smoke and intrusion detection.



Environmental Monitoring Probe

Gain peace of mind with industry-leading warranty and service plans.

We are so confident about the performance and reliability of the Powerware 9155 and Powerware 9355 UPSs and battery systems that we back them with extensive warranty and service plans.

Warranty coverage. Gain the peace of mind that comes with factory warranty coverage (parts and labor, UPS and batteries) and rapid response from certified support engineers.

Powerware 9155

- 2 year limited factory warranty
- 10 year pro-rated warranty
- \$250,000 load protection guarantee

Powerware 9355

- 1 year Service Protection Plan
- 7 x 24 emergency response
- On-site start-up support (8 hours/day, 5 days/week)
- 3 year battery warranty
- 1 year eNotify remote monitoring

Service plans. Beyond the warranty period, service plans are available to match any need—from basic UPS and/or battery support to

all-inclusive packages with unique features, such as advanced remote monitoring with trending, customized capacity planning reports, and power protection audits. Add your choice of guaranteed response times, and you can tailor just the right support package for your needs.

From Eaton—a global leader in power quality solutions.

The culmination of 40 years of R&D excellence, the Powerware 9155 and Powerware 9355 UPSs deliver confidence, and ensure that your organization's critical electronics are protected by the most reliable, efficient, and full-featured protection available.

Eaton is a global leader in power quality and management solutions—the #1 manufacturer of UPSs above 5000 VA (Frost & Sullivan: World UPS Markets, 2004). Eaton's Power Quality Solutions Operation is headquartered in Raleigh, North Carolina, U.S.

For more information on the Powerware 9155 and the new Powerware 9355 UPS:

www.powerware.com
1-800-356-5794

Powerware 9155 and Powerware 9355 at-a-glance

MODEL SELECTION TABLE - POWERWARE 9155 UPS (8-15 kVA)

Order Number ¹	Description	Power Rating ² (kVA/W)	Input & Output Connection ⁴	Output Receptacles	Dimensions H x W x D (in)	Unit Weight ³ (lb)
K408110000	PW9155 Model 8 - 32 Battery (2-high)	8kVA / 7.2kW	Hardwired	See PDM chart	32.2 x 12.0 x 32.0	352
K408120000	PW9155 Model 8 - 64 Battery (3-high)	8kVA / 7.2kW	Hardwired	See PDM chart	47.8 x 12.0 x 32.0	590
K408130000	PW9155 Model 8 - 32 Battery with Transformer (3-high)	8kVA / 7.2kW	Hardwired	See PDM chart	47.8 x 12.0 x 32.0	558
K410110000	PW9155 Model 10 - 32 Battery (2- high)	10kVA / 9kW	Hardwired	See PDM chart	32.2 x 12.0 x 32.0	352
K410120000	PW9155 Model 10 - 64 Battery (3- high)	10kVA / 9kW	Hardwired	See PDM chart	47.8 x 12.0 x 32.0	590
K410130000	PW9155 Model 10 - 32 Battery with Transformer (3-high)	10kVA / 9kW	Hardwired	See PDM chart	47.8 x 12.0 x 32.0	558
K412110000	PW9155 Model 12 - 32 Battery (2-high)	12kVA / 10.8kW	Hardwired	See PDM chart	32.2 x 12.0 x 32.0	352
K412120000	PW9155 Model 12 - 64 Battery (3-high)	12kVA / 10.8kW	Hardwired	See PDM chart	47.8 x 12.0 x 32.0	590
K412130000	PW9155 Model 12 - 32 Battery with Transformer (3-high)	12kVA / 10.8kW	Hardwired	See PDM chart	47.8 x 12.0 x 32.0	558
K415110000	PW9155 Model 15 - 32 Battery (2- high)	15kVA / 13.5kW	Hardwired	See PDM chart	32.2 x 12.0 x 32.0	352
K415120000	PW9155 Model 15 - 64 Battery (3- high)	15kVA / 13.5kW	Hardwired	See PDM chart	47.8 x 12.0 x 32.0	590
K415130000	PW9155 Model 15 - 32 Battery with Transformer. (3- high)	15kVA / 13.5kW	Hardwired	See PDM chart	47.8 x 12.0 x 32.0	558

1. 50/60 Hz auto-sensing. All models can be used for frequency/phase conversion with derated 80% load, please refer to manual for details.

2. Input voltage 200-240V with neutral or with optional input isolation transformer. Output voltages are user-selectable 100/200, 110/220, 120/240 Vac 180° phase displacement, or 120/208, 127/220 Vac 120° phase displacement.

3. Weight is installed weight, add 47lbs (2-high models) or 50lbs (3-high models) to determine shipping weight.

4. An input neutral is required for all configurations unless the input isolation transformer is used.

MODEL SELECTION TABLE - POWERWARE 9355 UPS (10-15 kVA)

Order Number ¹	Description	Power Rating ² (kVA/W)	Input & Output Voltages ⁴	Battery Backup ⁵	Dimensions H x W x D (in)	Unit Weight ³ (lb)
KA1011100000010	PW9355 with 32-Battery (2-high)	10 kVA / 9kW	208/208	8	32.2 x 12.8 x 33.5	373
KA1012100000010	PW9355 with 64-Battery (3-high)	10 kVA / 9kW	208/208	22	47.8 x 12.8 x 33.5	609
KA1011200000010	PW9355 with 32-Battery (2-high)	10 kVA / 9kW	220/220 ²	8	32.2 x 12.8 x 33.5	373
KA1012200000010	PW9355 with 64-Battery (3-high)	10 kVA / 9kW	220/220 ²	22	47.8 x 12.8 x 33.5	609
KA1011400000010	PW9355 with 32-Battery with Transformer (3-high)	10 kVA / 9kW	480/208	8	47.8 x 12.8 x 33.5	577
KA1011600000010	PW9355 with 32-Battery with Transformer (3-high)	10 kVA / 9kW	600/208	8	47.8 x 12.8 x 33.5	57
KA1511100000010	PW9355 with 32-Battery (2-high)	15 kVA / 13.5kW	208/208	4	32.2 x 12.8 x 33.5	373
KA1512100000010	PW9355 with 64-Battery (3-high)	15 kVA / 13.5kW	208/208	13	47.8 x 12.8 x 33.5	609
KA1511200000010	PW9355 with 32-Battery (2-high)	15 kVA / 13.5kW	220/220 ²	4	32.2 x 12.8 x 33.5	373
KA1512200000010	PW9355 with 64-Battery (3-high)	15 kVA / 13.5kW	220/220 ²	13	47.8 x 12.8 x 33.5	609
KA1511400000010	PW9355 with 32-Battery with Transformer (3-high)	15 kVA / 13.5kW	480/208	4	47.8 x 12.8 x 33.5	577
KA1511600000010	PW9355 with 32-Battery with Transformer (3-high)	15 kVA / 13.5kW	600/208	4	47.8 x 12.8 x 33.5	577

1. 50/60 Hz auto-sensing.

2. 220V units are wye connected 220/127V input and 220/127V output, 3-phase, 4-wire plus ground.

3. Weight is installed weight, add 47 pounds (for 2-high models) or 50 pounds (for 3-high models) to determine shipping weight.

4. An input neutral is required for all configurations unless the input isolation transformer is used.

5. Internal battery, full load.

ACCESSORIES

Order Number	Description	Dimensions H x W x D (in)	Unit Weight(lb)
Powerware Hot Sync			
124100017-001	Powerware 9155 Parallel Cabinet	24.0 x 20.3 x 2.2	57.3
103004336	Powerware HotSync CAN Bridge Card	-	-
Notes: Up to three Powerware 9155 UPS and up to four Powerware 9355 UPS (available Fall 2005) UPSs can be paralleled with the Parallel Cabinet. Each Powerware 9155 UPS and Powerware 9355 UPS must have a Powerware Hot Sync CAN Bridge Card installed in the second X-Slot communication bay.			
Extended Battery Module (EBM)			
103004192-5501	Powerware 9155 and Powerware 9355 EBM 64 (2-high)	32.2 x 12.0 x 30.2	480
103004193-5501	Powerware 9155 and Powerware 9355 EBM 96 (3-high)	47.8 x 12.0 x 30.2	710
Notes: up to four EBM 64 cabinets or three EBM 96 cabinets can be added to each UPS for extended runtime.			
Seismic Mounting Kit			
103004194-5501	Seismic Kit, Rated Zone 4, UL Tested, Performance rating based on NEBS GR-63-CORE Standard Vibration Test	Fits both 2- & 3-high models	136
Powerware 9155 Maintenance Bypass Module (MBM)			
103004184-5501	UPS-Mounted, Maintenance Bypass Module	16.5 x 12.0 x 7.0	15
BPE14MBB1A	Wall-mounted, Maintenance Bypass Module	21.0 x 14.0 x 6.75	31
Powerware 9155 Parallel System Start Up			
OSTUP9155P15KCX	Powerware 9155 8-10 kVA 2 or 3 Unit Parallel		
OSTUP9155P10KCX	Powerware 9155 12-15 kVA 2 or 3 Unit Parallel		
103004626	Powerware 9155 Parallel System 2 unit upgrade kit (includes Can Bridge Cards, Procedures, and Parallel User's Guide)		
103004627	Powerware 9155 Parallel System 3 unit upgrade kit (includes Can Bridge Cards, Procedures, and Parallel User's Guide)		
Connectivity Options			
103002974-5501	ConnectUPS-X Web/SNMP/xHub Card		
05146288-5501	ConnectUPS-MX SNMP/Modem Card (9155 only)		
103002510-5501	Modbus Card		
05146508-5501	USB Card		
05146447-5501	Multi-Server Card (9155 only)		
1018460	Relay Interface Card (AS/400 Compatible)		
103003055	Industrial Relay Card		
103003637-5501	Environmental Probe (requires ConnectUPS Web/SNMP card)		
Spare Parts			
106711155	Powerware 9155 Spare Parts Kit "A"		
106711169	Powerware 9355 Spare Parts Kit "A"		
Upgrades			
103004195	Powerware 9155 8 kVA to Powerware 9155 10 kVA		
103004196	Powerware 9155 12 kVA to Powerware 9155 15 kVA		
103004657	Powerware 9355 10 kVA to Powerware 9355 15 kVA		
Power Distribution Module (PDM) with Mechanical Bypass Switch			
Optional Receptacle Panels	Breaker	Voltage	Phase
(1) L15-30R	30A	208V	3
(1) L21-20R	20A	208/120V	3
(1) L21-30R	30A	208/120V	3
(2) 5-15R	15A	120V	1
(2) 5-20R	20A	120V	1
(2) 6-15R	15A	208V	2
(2) 6-20R	20A	208V	2
(2) L5-15R	15A	120V	1
(1) L5-20R ¹	20A	120V	1
(1) L5-30R ¹	30A	120V	1
(2) L6-15R	15A	208V	2
(1) L6-20R ¹	20A	208V	2
(1) L6-30R ¹	30A	208V	2
(1) L14-20R ¹	20A	120/208V	2
(1) L14-30R ¹	30A	120/208V	2
(2) IEC 320 C13 (120V)	20A	120V	1
(2) IEC 320 C19 (120V)	20A	120V	1
Blank panel			
Note: Maximum of eight panels per PDM (Powerware 9155). Maximum of four panels per PDM (Powerware 9355).			
1. The combined quantities of single-locking receptacle panels must not exceed five per PDM.			

POWERWARE 9355 UPS SERVICE CHART

Start-up Warranty Upgrades	Coverage or Response Time	Item #
Service Protection Plan Upgrades	4 hr 2 hr	SP41A SP21A
Warranty PowerTrust™ Service Plan Upgrade upgrade for first year of service only	8 hr 4 hr 2 hr	PP81B PP41B PP21B
Start-up Services Upgrade (5x8 to 7x24)	7x24	SU97A
Recertification/Restart	7x24	RC07N

Service Plan Contracts	Unit + Internal Battery	EBM 64	EBM 96
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PowerTrust ULTRA™ Service Plan (Premium)

PowerTrust ULTRA™ Service Plan (7x24) parts and labor coverage, annual 7x24 UPS preventative maintenance, battery parts & labor coverage, eNotify remote UPS and battery monitoring - must be connected; 30% discount on upgrades and T&M; includes 1 complete battery update every 6 year period):

8 hr Response	PU81N	PU81N-BA6	PU81N-BA9
4 hr Response	PU81N	PU81N-BA6	PU81N-BA9
2 hr Response	PU21N	PU21N-BA6	PU21N-BA9

PowerTrust™ Service Plan (Premium)

PowerTrust™ Service Plan (7x24 parts and labor coverage, annual 5x8 UPS and battery preventative maintenance, eNotify remote UPS and battery monitoring; 15% discount on upgrades):

8 hr Response	PT82N
4 hr Response	PT42N
2 hr Response	PT22N

PowerTrust™ VALUE Service Plan

PowerTrust™ VALUE Service Plan (5x8 parts and labor coverage, next business day response, annual 5x8 UPS preventative maintenance, eNotify remote UPS and battery monitoring):

PVN3N

3 Year Battery Labor Coverage

Adds labor and freight to 3YR battery parts warranty:

BL87N

Preventative	Unit + Internal Battery	EBM 64	EBM 96
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Battery Preventive Maintenance

Priced per VRLA cabinet:

5x8 coverage	0006N-BIN	0006N-BAG	0006N-BAG
7x24 coverage	0005-BIN	0005N-BAT	0005N-BAG

UPS Preventive Maintenance

5x8 coverage	0006N
7x24 coverage	0005N

POWERWARE 9155 UPS WARRANTY AND SERVICE CHART

Service Plan Features	Limited Factory Warranty	On-Site Gold Plan	On-Site Gold Plan Plus
Service plan terms available	2 Yr	2, 3, 5 Yr	2, 3, 5 Yr
90 days on-site labor (5x8); two years parts coverage			
On-site startup of UPS and batteries, 7/24			
On-site corrective maintenance, 7x24			
Full coverage of UPS and internal battery module			
7x24 technical telephone support			
Service priority			
Full coverage of extended battery modules			
One 7x24 annual preventive maintenance inspection			
		Service included	
		Optional service	

POWERWARE 9155 UPS (ON-SITE SERVICE IS 24 HOURS A DAY, 7 DAYS A WEEK)

	ON-SITE GOLD Part Number	ON-SITE GOLD PLUS Part Number
Powerware 9155 UPS (8–10 kVA)		
2 Yr	20SGX915510KVCX	20SGP915510KVCX
3 Yr	30SGX915510KVCX	30SGP915510KVCX
5 Yr	50SGX915510KVCX	50SGP915510KVCX
Powerware 9155 UPS (12–15 kVA)		
2 Yr	20SGX915515KVCX	20SGP915515KVCX
3 Yr	30SGX915515KVCX	30SGP915515KVCX
5 Yr	50SGX915515KVCX	50SGP915515KVCX

POWERWARE 9155 UPS EXTENDED BATTERY MODULES (ON-SITE SERVICE IS 24 HOURS A DAY, 7 DAYS A WEEK)

	ON-SITE GOLD Part Number	ON-SITE GOLD PLUS Part Number
Powerware 9155 EBM 64		
2 Yr	20SGX9155EB64CX	20SGP9155EB64CX
3 Yr	30SGX9155EB64CX	30SGP9155EB64CX
5 Yr	50SGX9155EB64CX	50SGP9155EB64CX
Powerware 9155 EBM 96		
2 Yr	20SGX9155EB96CX	20SGP9155EB96CX
3 Yr	30SGX9155EB96CX	30SGP9155EB96CX
5 Yr	50SGX9155EB96CX	50SGP9155EB96CX

POWERWARE 9155 UPS PARALLEL SYSTEM (ON-SITE SERVICE IS 24 HOURS A DAY, 7 DAYS A WEEK)

	ON-SITE GOLD Part Number	ON-SITE GOLD PLUS Part Number
Powerware 9155 UPS (8-10 kVA) 2 Unit Parallel System		
2 Yr	20SGX915510P2CX	20SGP915510P2CX
3 Yr	30SGX915510P2CX	30SGP915510P2CX
5 Yr	50SGX915510P2CX	50SGP915510P2CX
Powerware 9155 UPS (8-10 kVA) 3 Unit Parallel System		
2 Yr	20SGX915510P3CX	20SGP915510P3CX
3 Yr	30SGX915510P3CX	30SGP915510P3CX
5 Yr	50SGX915510P3CX	50SGP915510P3CX
Powerware 9155 UPS (12-15 kVA) 2 Unit Parallel System		
2 Yr	20SGX915515P2CX	20SGP915515P2CX
3 Yr	30SGX915515P2CX	30SGP915515P2CX
5 Yr	50SGX915515P2CX	50SGP915515P2CX
Powerware 9155 UPS (12-15 kVA) 3 Unit Parallel System		
2 Yr	20SGX915515P3CX	20SGP915515P3CX
3 Yr	30SGX915515P3CX	30SGP915515P3CX
5 Yr	50SGX915515P3CX	50SGP915515P3CX

TECHNICAL SPECIFICATIONS¹

Power

Ratings (kVA/Watts)

9155:	8, 10, 12 and 15 kVA at 0.9 power factor
9355:	10 and 15 kVA at 0.9 power factor

Topology True double-conversion online UPS

Electrical Input

Nominal Input Voltage

9155:	200V-240V with neutral or with optional input transformer
9355:	208V/120V or 220V/127V three phase

Input Voltage Range -15%, +10% from nominal at 100% load without depleting battery

Operating Frequency 50/60 Hz (45 to 65 Hz)

Input Power Factor PF >0.99 typical, >0.96 frequency converter

Input Current Distortion 5% THD

Electrical Output

Nominal Output Voltage

9155:	100/200, 110/220, 120/240 Vac 180° phase displacement; 120/208, 127/220 Vac 120° phase displacement
9355:	208/120, 220/127 Vac

Output Voltage Regulation ±1% Static; ±5% dynamic at 100% resistive load change, <1 ms response time

Efficiency

9155:	90% typical
9355:	91% typical

Battery

Battery Type 9Ah, sealed, lead-acid, maintenance-free

Battery Runtime See Battery Runtime Chart

Battery Replacement Field-replaceable

Charger Default is 3.4A per battery string. Charger current is configurable from 0.5A to 25A per string with an overall maximum of 34A (limited by input current)

Start-On-Battery Allows start of UPS without utility input

General

Diagnostics Full system self-test at startup

UPS Bypass Automatic on overload or UPS failure

Parallel for Redundancy and Capacity Yes, using Powerware Hot Sync technology

Dimensions and Weights See Model Selection Table

Overload (Normal Operation) 150% for 5 sec / 125% for 1 min (online), 110% for 10 min

Communications

LCD Display Graphical LCD with blue backlight

LEDs (4) LEDs for notice and alarm

Audible Alarms Yes

Communication Ports (1) RS-232, (1) relay contact, (1) REPO, (2) environmental input

Communication Slot (2) X-Slot communication bays

Power Management Software Bundled Software Suite CD

Environmental

Operating Temperature 10°C to +40°C, +45°C with 7.5% derating; Batteries recommended max. +25°C

Storage Temperature -15°C to +25°C

Relative Humidity 0-95%, non condensing

Audible Noise

9155:	Audible Noise: < 53 dBA at 1 meter (noise less room) typical
9355:	Audible Noise: < 56 dBA at 1 meter (noise less room) typical

Altitude < 1000m at +40°C, < 3000m at +25°C

Certifications

Safety Certifications

9155:	NOM-0190SCFI-1993, UL 1778, CSA C22.2, No. 107.3; EN 5502 Class A (CISPR22 Class A) and IEC 60950; IEC 62040-1-1
9355:	IEC 62040-1-1, IEC 60950, EN 62040-1-1, UL 1778

EMC Compliance

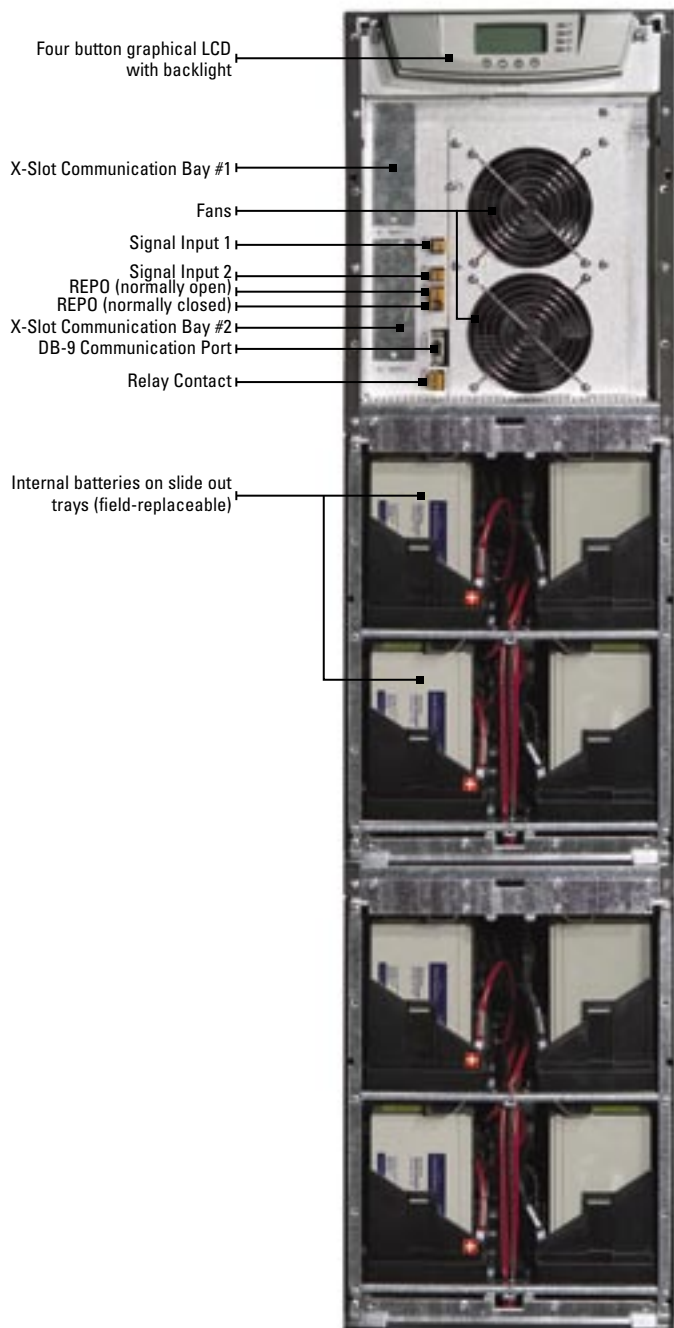
9155:	IEC 62040-2, FCC Part 15, ICES-003, VCCI
9355:	EN 50091-2 Class A

Quality ISO 9001: 2000 and ISO 14001:1996

Markings

9155:	UL, cUL, CSA, CE and NOM-NYCE
9355:	UL, cUL

1. Due to continuous product improvements, program specifications are subject to change without notice.



Front view of 3-high module with cover off

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Italy: 39.02.66.04.05.40
Norway: 47.23.03.65.50
Sweden: 46.8.598.940.00
United Kingdom: 44.1753.608.700

ASIA PACIFIC
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Singapore/SEA: 65.6829.8888

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