# Powerware® 9170+ Online UPS

#### **Features**

- N+X redundancy for both power and logic eliminates system level single point-of-failure
- Easily scalable to adapt to changing IT environments by simply adding power and/or battery modules
- True double conversion online design
- ABM® battery management system doubles battery service life
- Universal components fit in any order without affecting UPS operation
- Provides protection against all nine power problems
- Complete offering of power management software included to ensure data integrity
- Warranty (US and Canada)
  - -2-year limited warranty
  - -10-year pro-rated warranty
  - -\$25,000 load protection guarantee



The emergence of the e-business economy has demonstrated a new standard in system availability: zero downtime. This standard ranges from the largest data centers of the Internet and e-business infrastructure, to the server farms, networks, telecommunications and Internet service providers (ISPs) that are quickly becoming the foundation of all business worldwide. This in turn has been driving the most aggressive wave of innovation in power technologies, specifically UPS, in decades. The new e-business economy demands that technological solutions be quickly and easily deployed on a global scale.

The Powerware 9170+ is uniquely designed to meet these ever-changing customer needs. Built for a global audience, the 9170+ is a scalable, modular, flexible solution that combines the highest level of reliability with the lowest cost of ownership in the 3–18 kVA range.

The 9170+ enables customers to build a power solution specific to their needs, with an

### Snapshot

Power Rating: 3-18 kVA Input Voltage: 200-240 Vac Output Voltage: 100-127 or

208-240 Vac

**Frequency:** 50/60 Hz auto-sensing

Configuration: Tower or rack-mount

A dynamic and innovative solution for the changing global customer landscape

expandable level of redundancy and increase run times through plug-and-play 3 kVA UPS and battery modules. The 9170+ can be configured to fit three-, six-, nine- or twelve-slot enclosures, and is available for tower and rack-mount applications. The 9170+ also features a new Power Saver mode, a user-selectable feature that increases unit efficiency from 88% in normal operating mode to 97% in Power Saver mode. With its low initial investment, double conversion online technology, ABM® battery management system, and new high-efficiency Power Saver mode, means you will never have to compromise reliability for efficiency.

Unique to the 9170+ is its global deployment capability. By using a high frequency design, housing both logic and power in the power module, and offering a single cabinet design, distributors and purchasing departments around the world will have fewer system components to contend with, regardless of where the system is deployed.

# Powerware Recommends

#### Software

> Powerware Software Suite ensures data integrity; free updates on www.powerware.com

#### Connectivity

- > Expansion chassis with Modbus card > ConnectUPS-BD SNMP/WEB card
- > Relay card

#### Service

> Gold Plan Plus > Onsite Gold Plan Plus Enhance your power sys-

tem maintenance coverage with Gold Plans

#### **System Solutions**

- > Extended battery modules
- > Galvanic isolation transformers

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> PDUs



### **Technical Spotlight: Network-level N+X redundancy**

As business moves from a "bricks and mortar" model to "clicks and mortar", the need for system availability at all levels of enterprise is rising exponentially. From servers to routers to telecommunication installations, the interdependence of the technological components of the wired world can make systems vulnerable to downtime. Many precautions and preventive measures are taken when designing the network, including power protection.

In this shifting world, however, it's becoming more evident that simple power protection isn't enough.

A new level of reliability is needed, one with redundancy, and thereby system availability. Today users can opt for an even greater degree of redundancy, with N+1, N+2, N+3, etc. However, this level of redundancy can quickly become cost prohibitive if the user is creating redundant systems with single module UPS. The 9170+ overcomes this potential obstacle with its modular design. Redundancy comes from the 3 kVA power modules plugged into the system. For example, if you have a 9 kVA solution, and are looking for N+2 redundancy, you only need a 15 kVA UPS (five power modules) with the 9170+, instead of 18 kVA. That's because the five

UPS modules run in parallel within the system, giving you N+2 redundancy, without the additional cost and space requirements.

Powerware 9170+ eliminates a system level single point-of-failure. Because both the logic and power are housed in the module and not in the enclosure, there is a redundancy for the entire UPS. This is a critical distinction when looking for multiple levels of redundancy in the UPS, as there is inherent vulnerability in a UPS that limits redundancy in any part of the system.

## Technical Specifications<sup>1</sup>

Electrical Input	
Voltage	208-240V or 200/100, 208/ 120, 220/110,240/120 Vac
Voltage Range	176-276V
Input Power Factor	.98
Frequency	50/60 Hz (±3 Hz)
Electrical Output	
On Utility Voltage Regulation	±3% of nominal
On Battery Voltage Regulation	±3% of nominal
Efficiency	88% normal operation 97% High performance (optional programmable)
Frequency Regulation	±3 Hz online: ±0.1 Hz

Frequency Regulation	±3 Hz online; ±0.1 Hz on battery
Communications	
LCD Display	4 x 20 character backlit display, programmable
Language Support	English, French, Spanish and German
Communication ports	RS232, (DB9) (std)
Communication slots	2 Slots (standard)
SNMP capability	SNMP/Web enabled care options
Contact Closures	Relay Card option
Emergency Power off (EPO)	Input for external EPO

General	
Topology	True online, double conversion
Diagnostics	Full system self-test on power up
UPS bypass	Automatic on overload or UPS failure
Dimensions & weights	See Model Selection Guide
<b>Environmental and S</b>	afety
Safety markings	UL, CUL
EMC markings	FCC class A
Surge suppression	IEEE/ANSI C62.41
Audible noise	<50dBA
Ambient operating/	0 to 40°C (32 to 104°F)/
storage temperature	-20 to 40°C (60°C w/o batt)
	-4 to 104°F (140° F w/o batt)
Relative humidity	5% to 95%, non-condensing
REPO port	Meets NEC code 645-11 intent and UL requirements
Battery	
Internal battery type	Sealed, lead-acid; maintenance free
Battery runtime	See Battery Runtimes on back page
Battery replacement	Hot-swappable
Recharge time	<4 hours standard



#### **Powerware Software Suite**

The industry's most comprehensive software bundle, the Powerware Software Suite, is free and included with every Powerware 9170+ UPS.

- ▶ Software Wizard guides you through software selection and installation
- In addition to multimedia demonstrations, product data sheets, and video clips, the Software Suite contains the following power management software:
- LanSafe III network shutdown for UPSs
- OnliNet (Vista and Centro): SNMPbased network shutdown and monitoring for UPSs
- PowerVision (30-day trial version):
   UPS performance analysis monitoring
- Foreseer (demonstration): Facility and data center management

<sup>1.</sup> Due to continuing product improvement programs, specifications are subject to change without notice.

# **Powerware 9170+ Model Selection Guide**

1) 3 slot enclosure expandable to 3 kVA N+1 1) power module 1) caster kit  W653K includes: 3 kVA Hardwired Hardwired 9 kVA N+X 2) battery module 9 kVA N+X 2) battery modules 9 kVA N+X 4) battery modules 9 kVA N+X 5) battery modules 9 kVA N+X 6) battery modules 9 kVA Hardwired	rdwired 19.5 x 17.0 49.5 x 43.0 49.5 x 61.0 49.5 x 61.	0 x 25.5/ 155.0/69.9 0 x 25.5/ 232.0/104.8 0 x 25.5/ 232.0/104.8 0 x 65.0 346.0/156.7 0 x 25.5/ 346.0/156.7 0 x 25.5/ 389.0/176.7 0 x 28.5/ 427.0/193.7 0 x 28.5/ 504.0/228.6
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5) battery modules 1) caster kit  W959K includes: 1) 9 slot enclosure 2) power modules 3) power modules 4) power modules 2) power modules 2) power modules 3) power modules 4) power modules 5) battery modules 4) power modules 5) battery modules 6) battery modules 6) battery modules 6) power modules 7) 12 slot enclosure 7) 12 slot enclosure 8) battery modules 18 kVA N+X 19 12 slot enclosure 19 kVA 10 12 slot enclosure 20 power modules 118 kVA 110 12 slot enclosure 218 kVA 219 power modules 22 pandable to 23 power modules 24 power modules 25 power modules 26 power modules 27 pandable to 28 power modules 28 kVA 29 power modules 29 kVA 20 pandable to 20 power modules 20 power modules 20 power modules 21 pandable to 22 power modules 23 power modules 24 power modules 25 power modules 26 power modules 27 pandable to 28 power modules 28 power modules 29 power modules 20 power modules 20 power modules 20 power modules 21 pandable to 22 power modules 23 power modules 24 power modules 25 power modules 26 power modules 27 pandable to 28 power modules 28 power modules 29 power modules 20 power modules 21 pandable to 22 power modules 23 power modules 24 power modules 25 power modules 26 power modules 27 pandable to 28 power modules 28 power modules 29 power modules 20 power modules 21 pandable to 22 power modules 22 power modules 23 power modules 24 power modules 25 power modules 26 power modules 27 power modules 28 power modules 29 power modules 20 power mod	119.5 x 61.  dwired 60.7 x 24.0 154.5 x 61.  dwired 60.7 x 24.0	.0 x 72.5 0 x 28.5/ 427.0/193.7 .0 x 28.5 0 x 28.5/ 504.0/228.6
D) caster kit   W959K includes: 9 kVA	119.5 x 61.  dwired 60.7 x 24.0 154.5 x 61.  dwired 60.7 x 24.0	.0 x 72.5 0 x 28.5/ 427.0/193.7 .0 x 28.5 0 x 28.5/ 504.0/228.6
W9S9K includes: 9 kVA Hardwired Hardwired 1) 9 slot enclosure 8) power modules 18 kVA N+X  W12S9K includes: 9 kVA Hardwired Hardwired 1) 12 slot enclosure 8) power modules 18 kVA N+X  5) battery modules 18 kVA N+X  6) battery modules 18 kVA N+X  8) battery modules 19 kVA Hardwired Hardwired 10 12 slot enclosure expandable to 10 power modules 10 12 slot enclosure 11 kVA N+X  12 kVA Hardwired Hardwired 13 kVA N+X  14 kVA N+X  15 kVA Hardwired Hardwired 16 power modules 17 kVA Hardwired Hardwired 18 kVA N+X  19 battery modules 18 kVA N+X  10 battery modules  W12S18K includes: 18 kVA Hardwired Hardwired 19 l2 slot enclosure expandable to 10 battery modules  W12S18K includes: 18 kVA Hardwired Hardwired 19 l2 slot enclosure expandable to 10 battery modules  W12S18K includes: 18 kVA Hardwired Hardwired 19 l2 slot enclosure expandable to 10 power modules	119.5 x 61.  dwired 60.7 x 24.0 154.5 x 61.  dwired 60.7 x 24.0	.0 x 72.5 0 x 28.5/ 427.0/193.7 .0 x 28.5 0 x 28.5/ 504.0/228.6
1) 9 slot enclosure expandable to 3) power modules 18 kVA N+X 5) battery modules W1259K includes: 9 kVA Hardwired Hardwired 1) 12 slot enclosure expandable to 3) power modules W12512K includes: 12 kVA Hardwired Hardwired 1) 12 slot enclosure expandable to 4) power modules 18 kVA N+X 1) 12 slot enclosure expandable to 4) power modules 18 kVA N+X 19 battery modules W12515K includes: 15 kVA Hardwired Hardwired 1) 12 slot enclosure expandable to 5) power modules W12515K includes: 15 kVA Hardwired Hardwired 1) 12 slot enclosure expandable to 10 battery modules W12518K includes: 18 kVA Hardwired Hardwired 1) 12 slot enclosure expandable to 1) 12 slot enclosure expandable to 1) 12 slot enclosure expandable to 2) power modules	119.5 x 61.  dwired 60.7 x 24.0 154.5 x 61.  dwired 60.7 x 24.0	.0 x 72.5 0 x 28.5/ 427.0/193.7 .0 x 28.5 0 x 28.5/ 504.0/228.6
18 kVA N+X	dwired 60.7 x 24.0 154.5 x 61. dwired 60.7 x 24.0	0 x 28.5/ 427.0/193.7 .0 x 28.5 0 x 28.5/ 504.0/228.6
55 battery modules W1259K includes: 9 kVA Hardwired Hardwired 1) 12 slot enclosure expandable to 3) power modules W12512K includes: 12 kVA Hardwired Hardwired 1) 12 slot enclosure expandable to 4) power modules 18 kVA N+X 8) battery modules W12515K includes: 15 kVA Hardwired Hardwired 1) 12 slot enclosure expandable to 1) 12 slot enclosure expandable to 1) 12 slot enclosure expandable to 1) power modules 18 kVA N+X 10) battery modules W12518K includes: 18 kVA Hardwired Hardwired 1) 12 slot enclosure expandable to 2) power modules W12518K includes: 18 kVA Hardwired Hardwired 1) 12 slot enclosure expandable to 2) power modules	154.5 x 61. rdwired 60.7 x 24.0	.0 x 28.5 ) x 28.5/ 504.0/228.6
Solution	154.5 x 61. rdwired 60.7 x 24.0	.0 x 28.5 ) x 28.5/ 504.0/228.6
W1259K includes: 9 kVA Hardwired	154.5 x 61. rdwired 60.7 x 24.0	.0 x 28.5 ) x 28.5/ 504.0/228.6
expandable to 3) power modules 18 kVA N+X 5) battery modules W12S12K includes: 10 12 slot enclosure 11 kVA 12 slot enclosure 13 kVA 14 hardwired 15 battery modules W12S15K includes: 16 battery modules W12S15K includes: 17 kVA 18 kVA 19 hardwired 19 power modules W12S15K includes: 19 kVA 10 battery modules W12S18K includes: 10 battery modules W12S18K includes: 10 battery modules W12S18K includes: 11 kVA 12 slot enclosure 13 kVA 14 hardwired 15 power modules W12S18K includes: 18 kVA 19 battery modules	154.5 x 61. rdwired 60.7 x 24.0	.0 x 28.5 ) x 28.5/ 504.0/228.6
18 kVA N+X 5 battery modules W12S12K includes: 12 kVA 12 slot enclosure 13 kVA N+X 14 landwired 15 battery modules 18 kVA N+X 16 battery modules 18 kVA N+X 17 landwired 18 kVA N+X 18 battery modules W12S15K includes: 19 landwired 19 landwi	dwired 60.7 x 24.0	0 x 28.5/ 504.0/228.6
is battery modules  W12S12K includes: 12 kVA Hardwired Hardwired 10 power modules 10 battery modules 10 battery modules  W12S15K includes: 15 kVA Hardwired Hardwired 10 power modules  W12S15K includes: 15 kVA Hardwired Hardwired 10 power modules 118 kVA N+X  W12S18K includes: 18 kVA Hardwired Hardwired 118 kVA N+X  W12S18K includes: 18 kVA Hardwired Hardwired 118 kVA N+X		
W12512K includes: 12 kVA Hardwired Hardwired 1) 12 slot enclosure expandable to 4) power modules 18 kVA N+X 3) battery modules		
expandable to power modules 18 kVA N+X  W12515K includes: 15 kVA Hardwired Hardwired 10 12 slot enclosure expandable to power modules 18 kVA N+X  10 battery modules  W12518K includes: 18 kVA N+X  10 battery modules  W12518K includes: 18 kVA Hardwired Hardwired		
18 kVA N+X 3) battery modules W12515K includes: 15 kVA Hardwired Hardwired 10 12 slot enclosure expandable to 5) power modules W12518K includes: W12518K includes: 18 kVA Hardwired Hardwired Hardwired Hardwired Hardwired Hardwired Hardwired Hardwired 10 12 slot enclosure expandable to 18 kVA N+X	154.5 X 01.	.U X 20.3
3) battery modules W12515K includes: 15 kVA Hardwired Hard 1) 12 slot enclosure expandable to 5) power modules 18 kVA N+X 10) battery modules W12518K includes: 18 kVA Hardwired Hard 1) 12 slot enclosure expandable to 5) power modules 18 kVA N+X		
W12515K includes: 15 kVA Hardwired Hard   1) 12 slot enclosure expandable to   5) power modules 18 kVA N+X   10) battery modules   W12518K includes: 18 kVA Hardwired Hardwired   1) 12 slot enclosure expandable to   5) power modules 18 kVA N+X		
1) 12 slot enclosure expandable to 5) power modules 18 kVA N+X 10) battery modules W12S18K includes: 18 kVA Hardwired Hard 1) 12 slot enclosure expandable to 5) power modules 18 kVA N+X	1: 1 50 7 310	
18 kVA N+X  10) battery modules  W12S18K includes: 18 kVA  Hardwired	dwired 60.7 x 24.0	
10) battery modules  W12S18K includes: 18 kVA Hardwired Hard 1) 12 slot enclosure expandable to 5) power modules 18 kVA N+X	154.5 x 61.	.0 x 28.5
W12518K includes: 18 kVA Hardwired Hard 1) 12 slot enclosure expandable to 5) power modules 18 kVA N+X		
1) 12 slot enclosure expandable to 5) power modules 18 kVA N+X		
5) power modules 18 kVA N+X	dwired 60.7 x 24.0	0 x 28.5/ 658.0/298.4
·	154.5 x 61.	.0 x 28.5
12) battery modules		
re-configured systems with hardwire input and receptacles output options		
<u> </u>	.14-30R, 33.3 x 17.0	0 x 25.5/ 192.0/86.9
(=/ =	L6-30R, 84.5 x 43.0	
· ·	) 5-20R	J 7. JJ.0
2) battery modules	, 5 2011	
) caster kit		
	.14-30R, 33.3 x 17.0	0 x 25.5/ 269.0/121.8
·	L6-30R, 84.5 x 43.0	U.CO X U
	) 5-20R	
b) battery modules		
) caster kit		
	.14-30R, 33.3 x 17.0	
	L6-30R, 84.5 x 43.0	0 x 65.0
3) power modules 9 kVA N+X (12)	) 5-20R	
b battery modules		
) caster kit		
	.14-30R, 47.0 x 24.0	0 x 28.5/ 389.0/176.7
	L6-30R, 119.5 x 61.	
•		
5) battery modules (12)	) 5-20R	

Model Number	Power Rating	Input Connection	Output Connections	Dimensions HxWXD (in/cm)	WEIGHT (LB/KG)
		receptacles output options			
PW12S9K-PD includes:	9 kVA	Hardwired	(3) L14-30R,	60.7 x 24.0 x 28.5/	427.0/193.7
(1) 12 slot enclosure	expandable to 18 kVA N+X		(3) L6-30R,	154.5 x 61.0 x 28.5	
(3) power modules (6) battery modules	18 KVA N+X		(12) 5-20R		
PW12S12K-PD includes:	12 kVA	Hardwired	(3) L14-30R,	60.7 x 24.0 x 28.5/	504.0/228.6
1) 12 slot enclosure	expandable to		(3) L6-30R,	154.5 x 61.0 x 28.5	
4) power modules	18 kVA N+X		(12) 5-20R		
(8) battery modules					
PW12S15K-PD includes:	15 kVA	Hardwired	(3) L14-30R,	60.7 x 24.0 x 28.5/	581.0/263.5
1) 12 slot enclosure	expandable to		(3) L6-30R,	154.5 x 61.0 x 28.5	
(5) power modules	18 kVA N+X		(12) 5-20R		
(10) battery modules					
PW12S18K-PD includes:	18 kVA	Hardwired	(3) L14-30R,	60.7 x 24.0 x 28.5/	658.0/298.4
(1) 12 slot enclosure	expandable to		(3) L6-30R,	154.5 x 61.0 x 28.5	
(6) power modules	18 kVA N+X		(12) 5-20R		
(12) battery modules					
		d receptacles output option			
PW3S3K-LPD includes:	3 kVA	L14-30P	(1) L14-30R,	19.5 x 17.0 x 25.5/	155.0/69.9
(1) 3 slot enclosure	expandable to		(1) L6-30R,	49.5 x 43.0 x 65.0	
(1) power module	3 kVA N+1		(4) 5-20R		
(2) battery modules					
(1) caster kit	3 kVA	14 500	(2) L14-30R.	22.2 × 17.0 × 25.5/	102.0/96.0
PW6S3K-LPD includes:		14-50P	. , ,	33.3 x 17.0 x 25.5/	192.0/86.9
(1) 6 slot enclosure	expandable to 9 kVA N+X		(2) L6-30R,	84.5 x 43.0 x 65.0	
(1) power module (2) battery modules	9 KVA N+X		(12) 5-20R		
(1) caster kit					
PW6S6K-LPD includes:	6 kVA	14-50P	(2) L14-30R,	33.3 x 17.0 x 25.5/	269.0/121.8
(1) 6 slot enclosure	expandable to	50.	(2) L6-30R,	84.5 x 43.0 x 65.0	203.07.2.10
(2) power modules	9 kVA N+X		(12) 5-20R		
(4) battery modules			, , , , ,		
(1) caster kit					
UPS cabinet enclosures with	n hardwire input and	d output connections			
PW9170+ 3 Slot	3 kVA	Hardwired	Hardwired	17.8 x 17.0 x 25.5/	66.0/30.0
				45.0 x 43.0 x 65.0	
PW9170+ 6 Slot	3 to 9 kVA	Hardwired	Hardwired	31.5 x 17.0 x 25.0/	103.0/47.0
0.4/0.4.70 · O. Cl. ·	2			80.0 x 43.0 x 65.0	1500/730
PW9170+ 9 Slot	3 to 18 kVA	Hardwired	Hardwired	47.0 x 24.0 x 28.5/	158.0/72.0
PW9170+ 12 Slot	3 to 18 kVA	Hardwired	Hardwired	119.5 x 61.0 x 72.5 60.8 x 24.0 x 28.5/	196.0/89.0
7791701 12 3101	3 10 10 KVA	Haidwired	Haruwireu	154.0 x 61.0 x 72.5	130.0/03.0
Battery cabinet enclosures				15 1.0 X 01.0 X 72.3	
6 slot battery cabinet	-	DC interconnect option		31.5 x 17.0 x 25.0/	93.0/42.2
		ASY-0525 required		80.0 x 43.0 x 65.0	
9 slot battery cabinet	-	DC interconnect option		47.0 x 24.0 x 28.5/	148.0/67.1
		ASY-0525 required		119.5 x 61.0 x 72.5	
12 slot battery cabinet	-	DC interconnect option		60.8 x 24.0 x 28.5/	186.0/84.4
		ASY-0525 required	=	154.0 x 61.0 x 72.5	
Available modules	2   1   4   7   7				
Split phase power module	3 kVA/2.5 kw	-	-	4.2 x 14.1 x 15.3/	17.0/7.7
Universal phase at 12	2 12/4/2 4 1			10.6 x 35.8 x 38.9	17077
Universal phase power module	3 kVA/2.1 kw	-	-	4.2 x 14.1 x 15.3/	17.0/7.7
Battery module		-		10.6 x 35.8 x 38.9 4.2 x 7.0 x 14.8/	30.0/13.6
Jaccel V IIIOUUCE	-	-	-		30.0/13.0
				106 4 1 / 8 4 4 / 6	
20 Amp charger module	3 kVA			10.6 x 17.8 x 37.6 4.2 x 14.1 x 15.3/	17.0/7.7

Notes: 50/60 Hz automatic frequency selection. Input/Output voltages 208-240 V or 100/200,120/208, 127/220, 110/220 and 120/240 V. Split phase power module offers both high and low output voltage. Universal power module offers only high output voltage. (3) and (6) slot enclosure dimensions include caster kit.

#### Powerware 9170+ Features



Powerware 9170+ 6 slot configuration

#### **Maximum Performance**

- ▶ The lowest overall cost of ownership is a direct result of the low initial investment, higher operating efficiencies and programmable high efficiency
- ▶ A UPS solution that is as easy to install and operate as a PC. Universal components fit in any order in any slot without affecting the operation of the system or its protection of the critical load
- Featuring user-friendly LCD display and two internal communication slots, which accept a wide variety of connectivity devices and the new SNMP/Web adapter card
- ▶ Lightweight, high-performance power and battery modules weigh under 30 lbs. for easy service and hot swapping

#### **Maximum Reliability**

- ▶ N+X power and logic redundancy eliminates single point-of-failure, providing highest reliability and availability
- ▶ Redundant modularity virtually eliminates downtime and enhances serviceability
- ▶ ABM® technology doubles battery service life

#### **Maximum Availability**

- ▶ Double conversion online technology is universally recognized as providing the highest availability in an internet-centric global marketplace
- ▶ Provides protection against power surges, spikes, sags, line noise, and lightning

#### LCD panel







3 kVA power or charger module (1 per slot)

Communication cards



Battery module (2 per slot)

#### **Maximum Service Plans**

- ▶ Powerware Gold Plan Plus: Enhance and extend your standard UPS warranty with added assurance of knowing your UPS is installed and operating properly from the start
- ▶ Comprehensive coverage for the entire UPS
- On-site start-up by authorized Powerware representative
- ▶ Replacement UPS or module delivered to your location
- Original UPS or module picked up from your location
- ▶ Please call for details

#### **Maximum Flexibility**

- ▶ Modular design delivers scalable flexible solutions to constantly changing equipment requirements
- ▶ Easily expanded by installing additional power, charger, or battery modules to support additional critical applications and devices
- Internal options: galvanic isolation, line cord, receptacles, communications
- External options: rack-mount kit, casters (standard on 9- and 12-slot enclosures), extended runtime battery cabinets (housing up to 8 hours of additional runtime), wallmounted maintenance bypass cabinets



#### **Rack-mount configurations**

Adding yet another level of flexibility to the unique design of the Powerware 9170+ is the ability to configure it into a rack-mount solution. Imagine all the standard benefits of the Powerware 9170+ installed in a standard 19 inch computer rack.

### Powerware 9170+ runtime charts

Runtime chart in minutes (full load / half load) split-phase module ASY-0673  Load (VA) Number of strings (2 battery modules per string)												
	1 String	2 String	3 String	4 String	5 String	6 String	7 String	8 String	9 String	10 String	11 String	12 String
3 kVA	6.5/16	16/40	27.5/67.5	40/98	53.5/132	67.5/167	83/204	98/242	115/283	132/324	149/365	167/408
6 kVA		6.5/16	11/27.5	16/40	21.5/53.5	27.5/68	33.5/83	40/98	46.5/115	53.5/132	60.5/149	67.5/167
9 kVA			6.5/16	9.5/23.5	13/31.5	16/40	20/49	23.5/58	27.5/67.5	31.5/78	35.5/88	40/98
12 kVA				6.5/16	9/21.5	11/27.5	13.5/33.5	16/40	19/46.5	21.5/53.5	24.5/60.5	27.5/68
15 kVA					6.5/16	8/20.5	10/25	12/30	14/35	16/40	18.5/45	20.5/50.5
18 kVA						6.5/16	8/20	9.5/23.5	11/27.5	12.5/30	14.5/35.5	16/40
	13 String	14 String	15 String	16 String	17 String	18 String	19 String	20 String	21 String	22 String	23 String	24 String
3 kVA	185/456	204/501	223/549	242/595	262/640	283/692	302/750	323/790	345/850	365/900	387/955	408/1015
6 kVA	75/185	83/204	90/223	98/242	106/262	115/285	123/302	132/324	140/345	149/365	157/388	167/408
9 kVA	44/109	49/120	53.5/132	58/143	63/154	68/167	73/179	78/191	83/204	88/210	93/229	98/242
12 kVA	30.5/75	33.5/83	37/90	40/98	43/106	46.5/115	50/123	53.5/132	57/140	60/149	64/157	68/167
15 kVA	23/56	25/62	27.5/67.5	30/73.5	32.5/79.5	35/86	37.5/92	40/98	42.5/105	45/111	48/118	51/124
18 kVA	18/44	20/49	21.5/53.5	23.5/58	25.5/63	27.5/68	29.5/73	31.5/78	33.5/83	35.5/88	38/93	40/98

Runtime c	hart in	minute	s (full l	nad / h	alf load)	univer	sal mod	که مانیا	V-0674			
Load (VA) Numb					ali loau,	univer	sat illot	iute A3	1-00/4			
	1 String	2 String	3 String	4 String	5 String	6 String	7 String	8 String	9 String	10 String	11 String	12 String
3 kVA	8/24	24/59	43/95	58/140	80/175	95/215	119/240	135/290	155/335	165/365	200/395	215/450
6 kVA		8/24	16/40	24/59	32/83	40/103	49/114	58/140	69/156	83/175	90/190	103/205
9 kVA			8/24	13/35	18/46	24/59	29/63	35/86	40/103	46/115	54/125	58/140
12 kVA				8/24	13/33	16/40	19.5/43.5	24/59	29/70	33/80	36/90	41/100
15 kVA					8/24	11.5/31	14.5/31.5	18/46	20.5/51	24/58	28/66	31/73
18 kVA						8/24	11/31.5	13/36	15.5/41	18/45	20.5/51	24/58
	13 String	14 String	15 String	16 String	17 String	18 String	19 String	20 String	21 String	22 String	23 String	24 String
3 kVA	225/500	245/540	270/600	290/620	315/650	335/690	350/720	365/780	375/850	395/890	425/920	450/950
6 kVA	113/335	123/255	135/273	143/290	148/315	156/333	165/350	175/365	183/385	190/395	198/420	205/440
9 kVA	63/150	73/165	80/178	86/190	93/200	100/210	107/225	115/240	121/255	125/270	135/280	143/290
12 kVA	47/110	52/121	56/130	58/140	65/147	70/156	75/165	80/175	85/185	90/195	95/205	100/215
15 kVA	34/83	38/94	41.5/103	44.5/113	46.5/117	51/127	56/130	58/140	61/149	66/158	71/165	73/170
18 kVA	27/65	31.5/72	34.5/77	36/83	38/94	41/100	44/105	45/115	48/122	54/131	57/137	58/140

<sup>\*</sup> Battery strings above and to the right of the dark line require additional (N+X) power modules or an auxiliary charger. Battery runtimes are approximate and may vary with equipment, configuration, battery age, temperature, etc. Additional battery runtimes available up to 8 hrs. Please contact your Powerware representative.

#### **Powerware**

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