

Powerware® 9330 Model 20 and Model 40

Benefits

- ▶ **Maximum Availability** – with true double conversion online design, the proven technology that is used for the most mission-critical applications in the world. It's unusual to find line-interactive, pseudo-online or any other kind of UPS, other than double conversion online, supporting 24/365 data centers, facilities, ISPs and major telecommunications installations.
- ▶ **Maximum Reliability** – with Powerware Hot Sync®, the award-winning, patented technology that achieves paralleling for redundancy and capacity (up to four modules) with no system-level single-point-of-failure. The preferred paralleling technology installed around the world with such major customers as E*Trade, Colo.com, and Citibank, Powerware Hot Sync will be available in the 10-40 kVA range with the Powerware 9330.
- ▶ **Maximum Efficiency** – the Powerware 9330's advanced design features efficiency of up to 93%, the highest for a double conversion online UPS in this kVA range. No need to compromise reliability for efficiency with the Powerware 9330.
- ▶ **Maximum Performance** – the Powerware 9330 delivers the highest performance by using digital signal processing, true pulse-width-modulation and maximum IGBT responsiveness. This provides easy setup, drift-free operation and a pristine output.
- ▶ **Global Services** – Powerware service professionals provide around-the-clock monitoring, remote diagnostics, and on-site maintenance programs. More than just a material warranty, this is the most comprehensive service coverage available in the industry. Powerware Global Services provides you with peace of mind that potential downtime is prevented by proactive service and monitoring.



Designed specifically to meet the high-availability needs of critical 24x7 applications for small to medium-size businesses, the Powerware 9330 delivers enhanced system reliability and the highest efficiency ratings of any online UPS in the 10 – 40 kVA range. The 9330 also contains high-end features and benefits that only existed in larger capacity UPS, until now.

IT managers must implement the most efficient solutions possible, without compromising the business need for availability. Through its well-thought-out design, the Powerware 9330 helps IT managers meet both the high availability and operational efficiency requirements they face by eliminating a primary cause of downtime: power problems. The advanced features of the Powerware 9330 include:

Digital Signal Processing and Pulse-Width Modulation

True pulse-width modulation is achieved through the use of digital signal processing, which enables the IGBTs to work at their highest capacity, increasing system reliability and ensuring perfect power on the output.

Product Snapshot

Power Rating:	10, 15, 20, 25, 30, 35 and 40kVA
Voltage:	208/208, 480/208, 480/480, 600/208 VAC
Frequency:	50/60Hz

Built-in Control Area Network (CAN)

An integral internal and external Control Area Network (CAN) is incorporated into the Powerware 9330 that assists in seamlessly integrating peripherals and options, controllable from the control panel. It also reduces the internal wiring connections required therefore increasing overall system reliability.

Superior Cooling Design

The superior cooling design of the Powerware 9330 draws from Powerware's extensive, almost 40 years of industry and product development experience. This design, which features redundant fans, ensures that more thermally sensitive areas are cooled first.

Comprehensive Communications & User Interface

A large display, mimic and control panel is ergonomically situated for operator interface with the unit. The soft keypad helps guide the operator through all menus and setups. A dedicated micro-processor had been designed and engineered to provide full-featured monitoring and extensive alarm history. It allows for additional communication options like Internet accessibility, Ethernet, network links, and modems.

Internal Battery

The Powerware 9330 comes with internal batteries that provide up to 12 minutes of backup at full load. The batteries are easily accessible and maintained through front access slide-out trays. DC Expert Plus™ internal battery management system significantly enhances battery life.

Powerware® 9330 Model Selection Guide

Powerware 9330-20 Performance Characteristics		Model 10 10kVA/7kW				Model 15 15kVA/10.5kW				Model 20 20kVA/14kW			
Input Voltage	Volts	208	480	480	600	208	480	480	600	208	480	480	600
Output Voltage	Volts	208	208	480	208	208	208	480	208	208	208	480	208
Input/output Frequency	Hz	50/60	60	60	60	50/60	60	60	60	50/60	60	60	60
Input Voltage Range													
Minimum	Volts	177	408	408	510	177	408	408	510	177	408	408	510
Maximum	Volts	228	528	528	660	228	528	528	660	228	528	528	660
Rectifier Input	Amps	28	12.6	12.6	10.1	40	18.1	18.1	14.4	52	23.5	23.5	18.8
Bypass Input													
Nominal Amps	Amps	27.8	12.5	12.5	10	41.6	18.8	18.8	15	55.5	25.1	25.1	20
AC Output													
Nominal Amps	Amps	27.8	27.8	11.4	27.8	41.6	41.6	17	41.6	55.5	55.5	22.8	55.5
10 Minutes	Amps	34.8	34.8	14.3	34.8	52	52	21.3	52	69.4	69.4	28.5	69.4
Battery													
Nominal Voltage	Volts	288	288	288	288	288	288	288	288	288	288	288	288
Max Charge Voltage @ 25°C	Volts	340	340	340	340	340	340	340	340	340	340	340	340
Charge Current	Amps	7	7	7	7	7	7	7	7	7	7	7	7
Nominal Discharge Current Amps													
Total Cell Count		26	26	26	26	39	39	39	39	52	52	52	52
System Efficiency ^①		144	144	144	144	144	144	144	144	144	144	144	144
@ 100% Load	%	92.9	89.2	85.9	89.2	92.7	89	85.7	89	92.4	88.7	85.4	88.7
@ 75% Load	%	91.9	88.2	85	88.2	93	89.3	86	89.3	92.7	89	85.7	89
@ 50% Load	%	90.6	87	83.8	87	92	88.3	85.1	88.3	92.9	89.2	85.9	89.2
Maximum Heat Dissipation													
BTU/Hr. (x1000)		1.8	2.9	3.9	2.9	2.8	4.4	6.0	4.4	3.9	6.1	8.2	6.1
kcal/Hr.		460	730	989	730	711	1117	1507	1117	990	1533	2054	1533
Inverter Efficiency (Full Load)	%	93	93	90	93	94	94	92	94	94	94	92	94
Physical Attributes (max.)													
Width	in/cm	22/56	39/99	39/99	39/99	22/56	39/99	39/99	39/99	22/56	39/99	39/99	39/99
Height	in/cm	45/114	45/114	45/114	45/114	45/114	45/114	45/114	45/114	45/114	45/114	45/114	45/114
Depth	in/cm	31/79	31/79	31/79	31/79	31/79	31/79	31/79	31/79	31/79	31/79	31/79	31/79
Weight installed ^②	lbs/kg	958/435	1428/648	1688/766	1428/648	958/435	1428/648	1688/766	1428/648	958/435	1428/648	1688/766	1428/648

Powerware 9330 - 40 Performance Characteristics		Model 25 25kVA/17.5kW				Model 30 30kVA/21kW				Model 35 35kVA/24.5kW				Model 40 40kVA/28kW			
Input Voltage	Volts	208	480	480	600	208	480	480	600	208	480	480	600	208	480	480	600
Output Voltage	Volts	208	208	480	208	208	208	480	208	208	208	480	208	208	208	480	208
Input/Output Frequency	Hz	50/60	60	60	60	50/60	60	60	60	50/60	60	60	60	50/60	60	60	60
Input Voltage Range																	
Minimum	Volts	177	408	408	510	177	408	408	510	177	408	408	510	177	408	408	510
Maximum	Volts	228	528	528	660	228	528	528	660	228	528	528	660	228	528	528	660
Rectifier Input	Amps	70	31.6	31.6	25.3	80	36.1	36.1	28.9	92	41.5	41.5	33.2	100	45.1	45.1	36.1
Bypass Input																	
Nominal Amps	Amps	69.4	31.3	31.3	25.1	83	37.5	37.5	30	97	43.8	43.8	35	111	50.1	50.1	40.1
AC Output																	
Nominal Amps	Amps	69.4	69.4	28.6	69.4	83	83	34.2	83	97	97	39.9	97	111	111	45.7	111
10 Minute Amps	Amps	86.8	86.8	35.7	86.8	103.8	103.8	42.7	103.8	121.3	121.3	49.9	121.3	138.8	138.8	57.1	138.8
Battery																	
Nominal Voltage	Volts	288	288	288	288	288	288	288	288	288	288	288	288	288	288	288	288
Max Charge Voltage @ 25° C	Volts	340	340	340	340	340	340	340	340	340	340	340	340	340	340	340	340
Charge Current	Amps	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14
Nominal Discharge Current	Amps	64	64	64	64	78	78	78	78	91	91	91	91	100	100	100	100
Total cell count		144	144	144	144	144	144	144	144	144	144	144	144	144	144	144	144
System Efficiency ^①		91.4	88.2	85.1	88.2	92.2	89	85.9	89	91.7	88.5	85.4	88.5	91.5	88.3	85.2	88.3
@ 75% load	%	91	87.8	84.7	87.8	91.4	88.2	85.1	88.2	91.4	88.2	85.1	88.2	91.8	88.6	85.5	88.6
@ 50% load	%	90	86.9	83.8	86.9	90.4	87.2	84.2	87.2	90.9	87.7	84.6	87.7	91.1	87.9	84.8	87.9
Maximum Heat Dissipation																	
BTU/Hr. (x1000)		5.6	8.0	10.4	8.0	6.1	8.9	11.8	8.9	7.6	10.9	14.3	10.9	8.9	12.7	16.6	12.7
kcal/Hr.		1416	2013	2632	2013	1528	2238	2974	2238	1907	2740	3603	2740	2236	3191	4180	3191
Inverter Efficiency (Full Load)	%	92.5	92.5	89	92.5	93	93	90	93	93	93	90	93	93	93	90	93
Physical Attributes (max)																	
Width	in/cm	39/99	61/155	61/155	61/155	39/99	61/155	61/155	61/155	39/99	61/155	61/155	61/155	39/99	61/155	61/155	61/155
Height	in/cm	45/114	45/114	45/114	45/114	45/114	45/114	45/114	45/115	45/114	45/114	45/114	45/114	45/114	45/114	45/114	45/114
Depth	in/cm	31/79	31/79	31/79	31/79	31/79	31/79	31/79	31/79	31/79	31/79	31/79	31/79	31/79	31/79	31/79	31/79
Weight installed ^②	lbs/kg	1847/838	2812/1276	3497/1586	2812/1276	1847/838	2812/1276	3497/1586	2812/1276	1847/838	2812/1276	3497/1586	2812/1276	1847/838	2812/1276	3497/1586	2812/1276

^① Efficiency shown takes into account the output and input transformer for input or output voltages other than 208V

^② System weights include optional input filter and power distribution panel

* Specifications subject to change without notice

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