

Lead Acid Online UPS, 1000VA-3000VA

Reliable and economical backup power protection for servers and network applications.



Double-Conversion Online—Provides the most robust power protection against blackouts, brownouts, voltage surges, frequency variation and harmonic distortion



High output power factor—provides near unity output power factor rating (2U units)



Efficient operation—up to 98% ECO mode efficiency lowers energy consumption



Charging current—1/2/4/6/8/12A, adjustable from LCD display. Optimize charging for most battery solutions (2U units only)



Fast recharge—up to 95% battery charge in just 3 hours (2U units)



Multiple communications capability—RS-232, USB, and optional Web/SNMP communications card



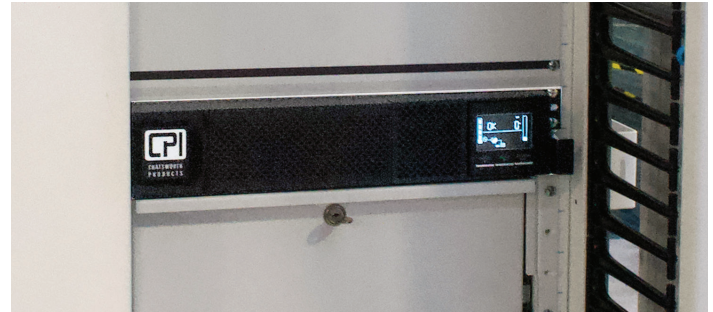
Programmable receptacles—remote on/off control (2U only) to extend runtimes to critical pieces of equipment in the event of a utility power outage



Extended battery runtimes—optional matching battery modules available for extended runtimes

ADDITIONAL FEATURES:

- Available models: 1000VA, 1500VA, 2000VA, 3000VA
- Tower, wall, two-post, and four-post rack mounting configurations
- Hot swappable battery design
- UL, cUL, CE, RoHS, FCC A, FCC B, TAA compliant (UPS only)
- 3 years electronics, 3 years battery warranty (USA and Canada)



UPS installed in CPI Four-Post Rack System

SPECIFICATIONS:

Description:	Double-conversion online UPS with lead acid battery
Use:	For indoor use in environmentally controlled areas or within environmental enclosures that maintain Operating Conditions (listed below)
Power Capacity:	<ul style="list-style-type: none"> • Specific to UPS (see ordering table) • Alternating current, 50/60 Hz autosensing • Voltage, varies per model (see ordering table)
Power Input:	<ul style="list-style-type: none"> • 120 VAC models support 55-150 VAC input depending on load level • 200-240 VAC models support 208/220/230/240 VAC input depending on load level
Power Output:	<ul style="list-style-type: none"> • Voltage, varies per model (see ordering table) • 120 Volt models support 120 VAC nominal. 2U models support 100/110/115/127 VAC selectable output. Capacities are based on highest selectable voltage. Some models derate at lower voltages. • 200-240 Volt models support 230 VAC nominal. 2U models support 200/208/220/230/240 VAC selectable output. Capacities derates to 90% at 208 Volt. • Waveform: Pure sine wave: <ul style="list-style-type: none"> - 1U: <=3% THD (linear load), <5% THD (non-linear load); - 2U: <=2% THD (linear load), <=4% THD (non-linear load) • Frequency: <ul style="list-style-type: none"> - 1U: 50/60 Hz ± 0.3 Hz - 2U: 50/60 Hz ± 0.1 Hz • Efficiency: Up to 98% efficiency • Overload Capacity: Online mode <ul style="list-style-type: none"> - 1U: > 105% & ≤ 130% for 2 min; >130% & ≤200% for 10 sec; >200% for 250 ms sec - 2U: >110% & ≤ 130% for 5 min; >130% & ≤140% for 30 sec; >140% for 1.5 sec

Availability: U.S. & Canada

United States

Simi Valley, CA
800-834-4969

Canada

Toronto, Ontario, Canada
+905-850-7770

Europe

Buckinghamshire, UK
+441628 524834

Middle East & Africa

Dubai, UAE
+971-4-2602125

Doha, Qatar
+974-4-267422

Latin America

Mexico City
+52-55-5203-7525
Toll Free within Mexico
+800-201-7592
chatsworth.com.co

Asia Pacific

Shanghai
+86 21 6880-0266
chatsworth.com.cn



CHATSWORTH
PRODUCTS

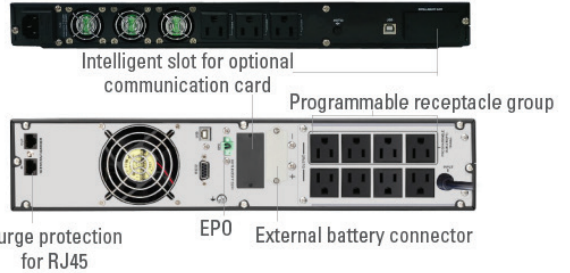
SPECIFICATIONS:

Battery:	<ul style="list-style-type: none"> • Battery Chemistry: Sealed, maintenance-free lead acid • Battery Size: Specific to UPS <ul style="list-style-type: none"> - VD1000x1U: (4) 6V 290W - VD1000x: (2) 12V 9AH - VD1500x: (3) 12V 9AH - VD2000x: (4) 12V 9AH - VD3000x: (6) 12V 9AH • Charger Voltage: Specific to UPS <ul style="list-style-type: none"> - VD1000x1U: 27.4 VDC - VD1000x: 27.4 VDC - VD1500x: 41.1 VDC - VD2000x: 58.8 VDC - VD3000x: 82.1 VDC • Charger current: <ul style="list-style-type: none"> - 1U: 1A default - 2U: 2A default, max 8A, adjustable through LCD • Recharge Time: <ul style="list-style-type: none"> - 1U: < 9 hours to 90% - 2U: < 3 hours to 95% with 2A charger current
Physical:	<ul style="list-style-type: none"> • Rack-Mount Spaces: 1U or 2U, includes mounting brackets • Dimensions: Specific to UPS <ul style="list-style-type: none"> - 1U: <ul style="list-style-type: none"> - VD1000x1U: 1.7"H x 17.2"W x 17.8"D (43 mm x 437 mm x 452 mm) - 2U: <ul style="list-style-type: none"> - VD1000x: 3.5"H x 17.2"W x 15.1"D (89 mm x 437 mm x 384 mm) - VD1500x: 3.5"H x 17.2"W x 15.1"D (89 mm x 437 mm x 384 mm) - VD2000x: 3.5"H x 17.2"W x 19.0"D (89 mm x 437 mm x 483 mm) - VD3000x: 3.5"H x 17.2"W x 23.8"D (89 mm x 437 mm x 605 mm) - Add 1" (25 mm) to front for bezel. Bezel extends in front of the equipment mounting rails. • Weight: Specific to UPS <ul style="list-style-type: none"> - VD1000x1U: 28.0 lb (12.7 kg) - VD1000x: 25.6 lb (11.6 kg) - VD1500x: 34.2 lb (15.5 kg) - VD2000x: 43.0 lb (19.5 kg) - VD3000x: 60.6 lb (27.5 kg) • Line cord: Specific to UPS (see ordering table) • Receptacles: Specific to UPS (see ordering table)
Operating Conditions:	<ul style="list-style-type: none"> • Temperature: 32-104°F (0-40°C) • Elevation: 0-11,500' above sea level
Approvals	<ul style="list-style-type: none"> • 120 Volt models: UL, cUL, RoHS, FCC Class B (VD1000x, VD1500x), FCC Class A (VD1000x1U, VD2000x, VD3000x), TAA compliant (UPS only) • 200-240 Volt models: CE, RoHS, TAA compliant (UPS only)
Warranty:	3 years electronics, 3 years battery warranty (USA and Canada)
Communications Interface	RS-232 (2U only), USB, EPO, intelligent slot for optional card (Web/SNMP)
Included in Box:	ViewPower software, user manual, horizontal brackets, and tower pedestals

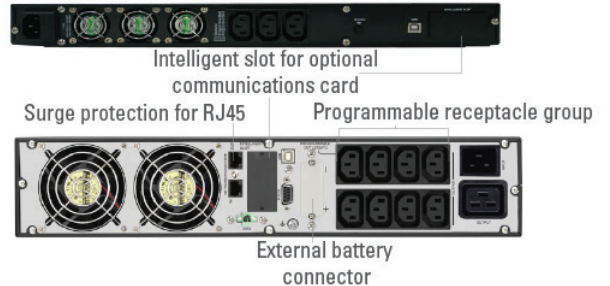


UPS Front View - 1U/2U

UPS Rear View VD1000A1U (top) & VD1000A (bottom)



UPS Rear View of VD1000B1U (top) and VD3000B (bottom)



PLUG/INLET TABLE

NEMA L5-30P 110-125 VAC/30A	NEMA L6-20P 200-240 VAC/20A	NEMA 5-15P	NEMA 5-20P

POWER RECEPTACLE/OUTLET TABLE

NEMA 5-20R 120 VAC/20A	IEC C13 UL: 120/208VAC/15A CE: 208VAC/10A	IEC C19 UL: 120/208VAC/20A CE: 208VAC/16A

ORDERING INFORMATION



Lead Acid Online UPS								
Part Number	Capacity VA	Capacity W	Input Plug*	Output Receptacles	Runtime 100% load	Runtime 50% load	External Battery Option	Bypass Distribution Module Compatibility
120 Volt**								
VD1000A1U	1000	800	C14 Inlet to 5-15P	(3) 5-15R	8	20	No	BDM1A
VD1000A	1000	1000	5-15P	(8) 5-15R	3	6	No	BDM1A
VD1500A	1500	1450	5-15P	(8) 5-15R	3	10	VXBP4 or VXBP5	BDM1A
VD2000A	2000	1930	5-20P	(8) 5-20R	3	10	VXBP6	BDM1B
VD3000A	3000	2880	L5-30P	(1)L5-30R + (6) 5-20R	3	10	VXBP7	BDM1D
200-240 Volt*								
VD1000B1U	1000	800	C14 Inlet to L6-20P	(3) C13	8	20	No	BDM1C
VD1500B	1500	1450	C14 Inlet to L6-20P	(8) C13	3	10	VXBP4 or VXBP5	BDM1C
VD2000B	2000	1930	C20 Inlet to L6-20P	(8) C13	3	10	VXBP6	BDM1C
VD3000B	3000	2880	C20 Inlet to L6-20P	(1) C19 + (8) C13	3	10	VXBP7	BDM1C

Notes:

*For 120 VAC models, Voltage input range is 55-150 VAC (depending on load level). Voltage output is 120 VAC nominal. 2U models support 100/110/115/127 VAC selectable output. Capacities are based on highest selectable voltage. Some models derate at lower voltages.
 **For 200-240 VAC models, Voltage input is 208/220/230/240 VAC (depending on load level). Voltage output is 230 VAC nominal. 2U models support 200/208/220/230/240 VAC selectable output.
 Capacity derates to 90% at 208 Volts.
 Line cord on VD1000A1U is 5' (1.5 m) long. Line cord on other 120 VAC models are 6' (1.8 m) long.
 Line cords on 200-240 VAC models are 8' (2.4 m) long.

Battery Runtimes:

Battery Runtimes as a Percentage of Full Load										
UPS P/N	Capacity (Watts)	Internal		(1) Battery Pack		(2) Battery Packs		(3) Battery Packs		Battery P/N
		50%	100%	50%	100%	50%	100%	50%	100%	
VD1000A1U	800	20	8	N/A	N/A	N/A	N/A	N/A	N/A	N/A
VD1000A	1000	6	3	N/A	N/A	N/A	N/A	N/A	N/A	N/A
VD1500A	1450	10	3	42	17	84	33	120	51	VXBP4
VD1500A	1450	10	3	84	33	157	72	244	122	VXBP5
VD2000A	1930	10	3	42	17	84	33	121	51	VXBP6
VD3000A	2880	10	3	42	17	84	33	121	52	VXBP7
VD1000B1U	800	20	8	N/A	N/A	N/A	N/A	N/A	N/A	N/A
VD1500B	1450	10	3	42	17	84	33	120	51	VXBP4
VD1500B	1450	10	3	84	33	157	72	244	112	VXBP5
VD2000B	1930	10	3	42	17	84	33	121	51	VXBP6
VD3000B	2880	10	3	42	17	84	33	121	52	VXBP7
UPS P/N	Capacity (Watts)	(4) Battery Packs		(5) Battery Packs		(6) Battery Packs		(7) Battery Packs		Battery P/N
		50%	100%	50%	100%	50%	100%	50%	100%	
VD1000A1U	800	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
VD1000A	1000	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
VD1500A	1450	157	72	199	93	244	112	289	128	VXBP4
VD1500A	1450	339	146	N/A	N/A	N/A	N/A	N/A	N/A	VXBP5
VD2000A	1930	157	72	200	93	244	112	289	128	VXBP6
VD3000A	2880	158	73	201	94	246	112	292	129	VXBP7
VD1000B1U	800	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
VD1500B	1450	157	72	199	93	244	112	289	128	VXBP4
VD1500B	1450	339	146	449	189	523	233	N/A	N/A	VXB54
VD2000B	1930	157	72	200	93	244	112	290	128	VXBP6
VD3000B	2880	158	73	201	94	246	112	292	129	VXBP7

Runtimes are shown in minutes and will vary based on battery condition, age, cycles and ambient temperature. Maximum of seven battery packs with Models VD1500x, VD2000x and VD3000x. Note N/A indicates battery pack limit for various UPS and battery pack combinations.

ACCESSORIES



Extended Runtime Battery Pack

Increase the on-battery runtime for UPS systems by adding additional external battery packs to the UPS. See the Battery Runtime table above for details. Each battery pack matches specific UPS models. Battery Packs use 2U of rack-mount space and should be placed adjacent to the supported UPS.

Part Number	Description	Shipping Weight lb (kg)
VXBP4	Use with VD1500x UPS; 2U; 18.9"D (481 mm); Black	10 (4.5)
VXBP5	Use with VD1500x UPS; 2U; 23.6"D (600 mm); Black	10 (4.5)
VXBP6	Use with VD2000x UPS; 2U; 18.9"D (481 mm); Black	10 (4.5)
VXBP7	Use with VD3000x UPS; 2U; 23.6"D (600 mm); Black	10 (4.5)

Select to match UPS, see Battery Runtime and UPS order table.



Communications Card

Provide remote monitoring, management, and control of the UPS through a network connection from a web browser. Monitor input voltage, output voltage, frequency, temperature, load and capacity. View event, data and battery test logs. Supports RFC1628, SNMPv1/v2/v3 and PCC MIB. Supports TCP/IP, IPv4, IPv6, HTTP, HTTPS, SSL, SSH, SMTP, SNTP, DHCP, Telnet, BOOTP, DNS, DDNS, PPPoE, and RADUS protocols. Supports an optional external environmental sensor.



Part Number	Description	Shipping Weight lb (kg)
SNMP1	Internal SNMP/WEB Card For VD/VL/LD UPS Models; 10/100 MB; Management and Shutdown o Remote Clients Via LAN; Black	1 (0.5)
SNMP1EXT	Environmental Monitoring Sensor; Attaches to SNMP1 Card; Monitors Temperature, Humidity; Black	1 (0.5)

Order one communications card per UPS.



BDM1A

Maintenance Bypass Distribution Modules

Manually transfer critical load from UPS power to utility power to prevent power interruption when repairing or replacing the UPS. Provide surge protection on input power.

Part Number	Description	Shipping Weight lb (kg)
BDM1A	1U; Single-Phase; 120V; 15A; 12'L (3.6 m) Input Cord with 5-15P; 5-15R UPS Input; 5-15P UPS Output; (6) 5-15R Outlets Front + (4) 5-15R Outlets Rear; 1.75"H x 19"W x 3.5"D (45 mm x 489 mm x 89 mm); Black	5 (2.2)
BDM1B	1U; Single-Phase; 120V; 20A; 12'L (3.6 m) Input Cord with 5-20P; 5-20R UPS Input; 5-20P UPS Output; (6) 5-20R Outlets Front + (4) 5-20R Outlets Rear; 1.75"H x 19"W x 3.5"D (45 mm x 489 mm x 89 mm); Black	7 (3.1)
BDM1C	1U; Single-Phase; 200-240V; 16A; C20 Inlet; C19 UPS Input; C20 UPS Output; (2) C19 + (4) C13 Outlets Front + (4) C13 Outlets Rear; Includes (2) C20 to (C19) Cord Kits; 1.75"H x 19"W x 3.5"D (45 mm x 483 mm x 89 mm), Black	5 (2.2)
BDM1D	1U; Single-Phase; 120V; 30A; 6'L (1.8 m) Input Cord with L5-30P; L5-30R UPS Input; L5-30P UPS Output; (5) 5-20R Outlets Front + (5) 5-20R Outlets Rear; 1.75"H x 19"W x 3.5"D (45 mm x 483 mm x 89 mm); Black	5 (2.2)

Notes: For 120VAC models, maximum spike current is 6500A, energy dissipation is 114J, maximum clamping voltage is 330VAC. For 200-240 VAC models, maximum spike current is 6500A, energy dissipation is 220J, maximum clamping voltage is 330VAC.



BDM1B



BDM1C



BDM1D

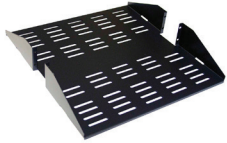
ACCESSORIES



UPSRAILKIT4A



UPSRAILKIT2A



UPSSHELFKIT2A



UPSBRKT1

UPS Mounting Kits

Various mounting kit options for UPS, Extended Runtime Battery Packs and Isolation Transformer PDUs.

Part Number	Description	Shipping Weight lb (kg)
UPSRAILKIT4A	Four Post Rail Kit for 800VA-3000VA UPS; Min Rail Depth 20" (508 mm); Max Rail Depth 32" (812 mm); Zinc	7 (3.1)
UPSRAILKIT2A	Two Post Rail Kit for UPS; Rated For 125 lb (56 kg); 3"H x 4"W x 20"D (77 mm x 102 mm x 508 mm); Black	7 (3.1)
UPSSHELFKIT2A	Two Post Shelf for UPS; Rated For 150 lb (68 kg); 3.5"H x 21.5"W x 23.3"D (89 mm x 547 mm x 592 mm); Black	14 (6.3)
UPSBRKT1	Front Rack-mount Bracket for 800VA-3000VA UPS; For 2-Post and 4-Post Racks, Black	2 (0.9)

Note: UPS and Battery Packs include Front Rack-Mount Bracket (P/N UPSBRKT1).



Step Down Isolation Transformer Power Distribution Unit

Rack-mount transformer converts 240 VAC or 208 VAC input to 240 VAC, 208 VAC and 120 VAC output to power a mix of equipment.

Part Number	Description	Shipping Weight lb (kg)
XMERPDU1	1500W; 2U; Single-Phase; 208V Input; 120V Output; IEC-C14 Inlet; (16) 5-15R Outlets; 3.5"H x 17.5"W x 15"D (89 mm x 445 mm x 381 mm); Black	48 (21.4)

*L6-30R output voltage is passed through (not isolated) and the same as input.



Extended Warranty

Extend the standard 3-year warranty to 5 years by adding an additional 2 years of coverage. Extended warranty includes coverage of electronics and internal batteries on UPS and advanced replace with ground shipping both ways.

Contact CPI Customer Service, or visit chatsworth.com/warranty for more information.

Part Number	Description
2YEXTWAR-UPSVD1	Five-Year Warranty for VD1000x VD1500x Single-Phase UPS
2YEXTWAR-UPSVD2	Five-Year Warranty for VD2000x VD3000x Single-Phase UPS
2YEXTWAR-BP2	Five-Year Warranty for VXBP4, VXBP5, VXBP6 or VXBP7 Extended Runtime Battery Pack

For a complete list of eConnect PDU models, visit chatsworth.com/power



CHATSWORTH PRODUCTS

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