

# Online Lead-Acid UPS - 1 kVA - 3 kVA

This UPS is Born to Perform

Our online rack mount lead-acid (VRLA) UPS offers reliable backup power in a 2U form factor. It's available in power capacities ranging from 1 kVA to 3 kVA. Being an online (double-conversion) UPS, it not only provides backup power for the rack but also shields rack-mounted equipment from any kind of power surge or disturbance, protecting your mission-critical equipment and enabling a safe shutdown in the event of a power failure.



## PRODUCT APPLICATIONS

Suited for edge computing applications, standard networking closets and IT rooms, state, local, and federal agencies, universities and educational institutions, industrial IT, and more.

## PRODUCT FEATURES

### 3 Year Full Warranty

- Industry leading coverage
- Covers both lead-acid batteries and UPS electronics

### Online (Double Conversion) Technology

- Provides safe and reliable power supply
- Battery supplies backup power

### Extended Runtimes

- Optional matching battery modules available for extended runtimes

### Charging Current

- Current adjustable from LCD display
- Optimize charging for most battery solutions

### Efficient Operations

- Lower energy consumption with up to 98% ECO mode efficiency

### Multiple Power Capacities Available

Power capacities available in:

- 1000 VA (1000 W) - 120 VAC = PN: DX1000L
- 1500 VA (1450 W) - 120 VAC = PN: DX1500L
- 2000 VA (1930 W) - 120 VAC = PN: DX2000L
- 3000 VA (2880 W) - 120 VAC = PN: DX3000L
- 1500 VA (1450 W) - 230 VAC = PN: DX1500M
- 2000 VA (1930 W) - 230 VAC = PN: DX2000M
- 3000 VA (2880 W) - 230 VAC = PN: DX3000M

### Auto Restart

- After full battery discharge, the UPS automatically restarts when utility power returns

### Benefits

- Hot-swappable battery packs
- Bypass distribution module compatible

# PRODUCT SPECIFICATIONS

## PHYSICAL SPECIFICATIONS - 120 VAC

Part Number	DX1000L	DX1500L	DX2000L	DX3000L
Dimensions (WxDxH)**	17.2" x 15.1" x 3.5" (436.88 mm x 383.54 mm x 88.9 mm)		17.2" x 19" x 3.5" (436.88 mm x 482.6 mm x 88.9 mm)	17.2" x 23.8" x 3.5" (436.88 mm x 604.52 mm x 88.9 mm)
Weight	25.5 lb (11.56 kg)	34.2 lb (15.51 kg)	43 lb (19.50 kg)	60.6 lb (27.48 kg)
Power Cord	6 ft (1.82 m), 5-15P		6 ft (1.82 m), 5-20P	6 ft (1.82 m), L5-30P
UPS Receptacles	(8) NEMA 5-15R		(8) NEMA 5-15/20R	(6) 5-15/20R + L5-30R

## POWER

Power Capacity	1000 VA (1000 W)	1500 VA (1450 W)	2000 VA (1930 W)	3000 VA (2880 W)
Input (Voltage/Frequency)	55-150VAC* / 50/60Hz auto-sensing			
Output (Voltage)	120 VAC nominal (100/110/115/127 selectable)***			
Waveform	<=2% THD (linear load), <=4 THD (non-linear load)			
Output (Frequency)	50/60Hz ± 0.1Hz			
Output (Efficiency)	Up to 98% efficiency			
Overload Capacity	> 110% & ≤ 130% for 5 min; > 130% & ≤ 140% for 30 sec; >140% for 1.5 sec			

## BATTERY

Type	Sealed, maintenance-free lead-acid			
Charging Voltage	27.4 VDC	41.1 VDC	54.8 VDC	82.1 VDC
Charging Current	2A default, max 8A adjustable			
Typical Recharge/Charger	< 3 hours to 95% with 2A charger current			

## INCLUDED

Communications Interface	RS-232, USB, EPO, intelligent slot for optional cards (Web/SNMP, Relay/dry contact, Modbus)			
Included In Box	ViewPower software, horizontal brackets, tower pedestals, and user manual			

## OPTIONAL

Available Options	Bypass distribution (PM series), 4-post rail kit, 2-post shelf kit, wall-mount bracket			
Optional Battery Pack PN	N/A	BX36D & BX36DA	BX48D	BX72D

## ENVIRONMENTAL

Operating Temperature	32-104°F (0-40°C)			
Elevation, Above MSL	11,500 ft (3,500 m)			

## COMPLIANCE/STANDARDS

EMC Compliance	FCC Class A, FCC Class B (as applicable)			
Safety Compliance	TUV certified to UL-1778 and CSA-C22.2no107.3-14			
Environmental	RoHS			
TAA Compliant	Yes (UPS only)			

\*Depending on load level. \*\*Rack depth is front bracket to unit panel. Add 1" for depth including front bezel. \*\*\*Capacities are based on highest selectable voltage. Some models derate at lower voltages

# PRODUCT SPECIFICATIONS

PHYSICAL SPECIFICATIONS - 230 VAC			
Part Number	DX1500M	DX2000M	DX3000M
Dimensions (WxDxH)**	17.2" x 15.1" x 3.5" (436.88 mm x 383.54 mm x 88.9 mm)	17.2" x 19" x 3.5" (436.88 mm x 482.6 mm x 88.9 mm)	17.2" x 23.8" x 3.5" (436.88 mm x 604.52 mm x 88.9 mm)
Weight	34.2 lb (15.51 kg)	43 lb (19.50 kg)	60.6 lb (27.48 kg)
Power Cord	C14 inlet, 8 ft (2.4 m) L6-20P to C13 line cord	C20 inlet, 8 ft (2.4 m) L6-20P to C19 line cord	
UPS Receptacles	(8) IEC C13	(8) IEC C13	IEC C19 + (8) IEC C13
POWER			
Power Capacity	1500 VA (1450 W)	2000 VA (1930 W)	3000 VA (2880 W)
Input (Voltage/Frequency)	208/220/230/240 VAC* / 50/60Hz auto-sensing		
Output (Voltage)	230 VAC nominal (200/208/220/230/240 VAC selectable)***		
Waveform	<=2% THD (linear load), <=4 THD (non-linear load)		
Output (Frequency)	50/60 Hz ± 0.1 Hz		
Output (Efficiency)	Up to 98% efficiency		
Overload Capacity	> 110% & ≤ 130% for 5 min; > 130% & ≤140% for 30 sec; >140% for 1.5 sec		
BATTERY			
Type	Sealed, maintenance-free lead-acid		
Charger Voltage	41.1 VDC	54.8 VDC	82.1 VDC
Charging Current	2A default, adjustable Max 12A (1.5 & 2k)/8A (3k)		
Typical Recharge/Charger	< 3 hours to 95% with 2A charger current		
INCLUDED			
Communications Interface	RS-232, USB, EPO, intelligent slot for optional cards (Web/SNMP, Relay/dry contact, Modbus)		
Included in Box	ViewPower software, horizontal brackets, tower pedestals, and user manual		
OPTIONAL			
Available Options	Bypass distribution (PM series), 4-post rail kit, 2-post shelf kit, wall-mount bracket		
Optional Battery Pack PN	BX36D & BX36DA	BX48D	BX72D
ENVIRONMENTAL			
Operating Temperature	32–104°F (0–40°C)		
Elevation, Above MSL	11,500 ft (3,500 m)		
COMPLIANCE/STANDARDS			
EMC Compliance	CE, EN62040-2:2006+AC:2006 & EN61000 (as applicable)		
Safety Compliance	CE, EN62040-1:2008+A1:2013		
Environmental	RoHS		
TAA Compliant	Yes (UPS only)		

\*Depending on load level. \*\*Rack depth is front bracket to unit panel. Add 25 mm for depth including front bezel. \*\*\*Capacity derates to 90% at 208 V output

# PRODUCT SPECIFICATIONS

## BATTERY RUNTIMES - 120 VAC

	Internal Batteries		External Battery Packs													
			1		2		3		4		5		6		7	
<b>Percentage Load:</b>	50%	100%	50%	100%	50%	100%	50%	100%	50%	100%	50%	100%	50%	100%	50%	100%
<b>DX1000L</b>	6	3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>DX1500L (BX36D)</b>	10	3	42	17	84	33	120	51	157	72	199	93	244	112	289	128
<b>DX1500L (BX36DA)</b>	10	3	84	33	157	72	244	112	339	146	N/A	N/A	N/A	N/A	N/A	N/A
<b>DX2000L (BX48D)</b>	10	3	42	17	84	33	121	51	157	72	200	93	244	112	290	128
<b>DX3000L (BX72D)</b>	10	3	42	17	84	33	121	52	158	73	201	94	246	112	292	129

Maximum of seven battery packs per DX1500L, DX2000L, or DX3000L (excluding BX36DA). Runtimes are shown in minutes and vary based on battery condition, age, cycles, and ambient temperature.

## BATTERY RUNTIMES - 230 VAC

	Internal Batteries		External Battery Packs															
			1		2		3		4		5		6		7		8	
<b>Percentage Load:</b>	50%	100%	50%	100%	50%	100%	50%	100%	50%	100%	50%	100%	50%	100%	50%	100%	50%	100%
<b>DX1500M (BX36D)</b>	10	3	42	17	84	33	120	51	157	72	199	93	244	112	289	128	339	146
<b>DX1500M (BX36DA)</b>	10	3	84	33	157	72	244	112	339	146	449	189	523	233	N/A	N/A	N/A	N/A
<b>DX2000M (BX48D)</b>	10	3	42	17	84	33	121	51	157	72	200	93	244	112	290	128	340	147
<b>DX3000M (BX72D)</b>	10	3	42	17	84	33	121	52	158	73	201	94	246	112	292	129	343	148

Maximum of eight battery packs per DX1500M, DX2000M, or DX3000M (excluding BX36DA). Runtimes are shown in minutes and vary based on battery condition, age, cycles, and ambient temperature.

