

Series No.

UPS9A Series

Uninterruptible Power Supply



ONLINE DOUBLE CONVERSION UPS solution offers power conditioning and outage protection in a compact and flexible rack or tower format. With near unity power factor operation (2U units), the UPS provides maximum usable power to equipment and protects it with a standard 3-year warranty (or optional 5-year extended warranty). The 2U models provide scalable battery capacity when extended protection is required; the powerful charger can provide up to 8 amps of current to quickly recharge up to 7 matching battery packs (ordered separately).



FEATURES

AVAILABLE POWER RATINGS: 1000VA (1U/2U), 1500VA, 2000VA, 3000VA

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: 1/2/4/6/8A, adjustable from LCD display. Optimize charging for most battery solutions (2U units)

MULTIPLE COMMUNICATIONS: The UPS9A Series offers capability for communications via RS-232 and USB. See the accessories section below to add modules to accommodate more formats.

PROGRAMMABLE RECEPTACLES: Remote on/off control (2U units)

HOT SWAPPABLE BATTERY: Replace battery without interrupting the load.

FAST RECHARGE: Up to 95% in just 3 hours (2U units)

MOUNTING FORMATS:

- **Rackmount:** 1U and 2U models include a 4-point rackmount rail kit with horizontal brackets. See chart on page 2 for minimum depth requirements.
- **Tower Pedestals:** 2U models also include pedestals for non-rackmount applications.

CERTIFICATION: UL, cUL, RoHS, TAA compliant (UPS only). See chart on page 3 for more.

COUNTRY OF ORIGIN: Taiwan

WARRANTY: 3 year warranty on electronics and battery (U.S. and Canada)

OPTIONS (order separately)

- **Expansion Battery Pack:** External battery packs for extended run times are available for 1500VA, 2000VA and 3000VA UPS. (see chart on pg. 2)
- **Dry Contact Card:** Form C relay dry contact closures for remote monitoring. (UPS-RELAY)
- **SNMP Card:** Internal card with software allows monitoring and control of remotely connected UPS from a web browser. (UPS-SNMP)
- **Extended Warranty:** Five year warranty on electronics and battery. Warranty must be purchased at the same time as the UPS. (see chart on pg. 2)

A&E SPECIFICATIONS

(2U models): The uninterruptible power supply (UPS) shall be Lowell model _____ (UPS9A-1000, UPS9A-1500, UPS9A-2000, UPS9A-3000), which shall include a 4-point rackmount rail kit and tower pedestals. The chassis shall measure _____. The UPS shall feature input voltage/frequency of 50-150VAC/ 50/60Hz auto-sensing, depending on load level. Output voltage shall be 120VAC nominal (100/110/115/127 selectable, capabilities based on highest selectable voltage). Power rating shall be _____ (1000VA, 1500VA, 2000VA, 3000VA). The unit shall feature _____ receptacles and include a power cord with plug.

UPS9A SERIES OVERVIEW

Model No.	Description	4-pt. Rail kit	Tower pedestals	UPS overall depth *	UPS mounting depth w/rail kit **	Minimum rack depth ***
UPS						
UPS9AC-1000	Online UPS 1000VA (800W), 1U	√		18.8"	17.8"	22"D
UPS9A-1000	Online UPS 1000VA (1000W), 2U	√	√	16.1"	15.1"	22"D
UPS9A-1500	Online UPS 1500VA (1450W), 2U	√	√	16.1"	15.1"	22"D
UPS9A-2000	Online UPS 2000VA (1930W), 2U	√	√	20"	19"	27"D
UPS9A-3000	Online UPS 3000VA (2880W), 2U	√	√	24.8"	23.8"	32"D
Accessories						
UPS-RELAY	Dry contact card relay control					
UPS-SNMP	Internal SNMP card					
UPS-XBPA-36	Expansion battery pack, 2U (for UPS9A-1500)	√	√			
UPS-XBPA-36E	Expansion battery pack, 2U (for UPS9A-1500)	√	√			
UPS-XBPA-48	Expansion battery pack, 2U (for UPS9A-2000)	√	√			
UPS-XBPA-72	Expansion battery pack, 2U (for UPS9A-3000)	√	√			
UPS-EW-522	Extended 5 year warranty (for UPS9A-1000, 1500; UPS9AC-1000)					
UPS-EW-523	Extended 5 year warranty (for UPS9A-2000, 3000)					
UPS-EW-524	Extended 5 year warranty (for external battery packs)					
UPS-RBT1-370	REPLACEMENT battery tray (for UPS9A-1000)					
UPS-RBT2-371	REPLACEMENT battery tray (for UPS9A-1500)					
UPS-RBT3-372	REPLACEMENT battery tray (for UPS9A-2000)					
UPS-RBT4-373	REPLACEMENT battery tray (for UPS9A-3000)					
Bundles						
UPS9A-1000-IP	UPS9A-1000 + UPS-SNMP	√	√			
UPS9A-2000-IP	UPS9A-2000 + UPS-SNMP	√	√			
UPS9A-3000-IP	UPS9A-3000 + UPS-SNMP	√	√			

* UPS Overall Depth: UPS chassis with front bezel.

** UPS Mounting Depth: Dimensions of UPS mounted in a rack from front rack rail to rear of UPS (bezel extends approx. 1" beyond front rack rail).

*** Minimum Rack Depth: For Lowell floor-standing racks (contact Lowell for other rack styles)

SPECIFICATIONS

LOWELL MODEL NO.		UPS9AC-1000	UPS9A-1000	UPS9A-1500	UPS9A-2000	UPS9A-3000
CAPACITY	Power rating	1000VA (800W)	1000VA (1000W)	1500VA (1450W)	2000VA (1930W)	3000VA (2880W)
INPUT	Voltage/frequency	50–150VAC* / 50/60Hz auto-sensing				
OUTPUT	Voltage	120VAC	120VAC nominal (100/110/115/127 selectable)***			
	Waveform	Pure sine wave, 1U: <=3% THD (linear load), <=5% THD (non-linear load); 2U: <=2% THD (linear load), <=4% THD (non-linear load)				
	Frequency	50/60Hz ± 0.3Hz	50/60Hz ± 0.1Hz			
	Efficiency	Up to 98%				
	Overload capacity	1U online mode: >105% & ≤130% for 2min; >130% & ≤200% for 10sec; >200% for 250ms 2U online mode: >110% & ≤130% for 5min; >130% & ≤140% for 30sec; >140% for 1.5sec				
BATTERY	Battery chemistry	Sealed, maintenance-free lead acid				
	Battery size	(4) 6V 290W	(2) 12V 9AH	(3) 12V 9AH	(4) 12V 9AH	(6) 12V 9AH
	Typical recharge / charger	<9 hours to 90%	<3 hours to 95% with 2A charger current			
	Charging current	1A	2A default, max 8A adjustable			
PHYSICAL	Dimensions (W x D x H) **	17.2 x 17.8 x 1.7 in	17.2 x 15.1 x 3.5 in		17.2 x 19 x 3.5 in	17.2 x 23.8 x 3.5 in
	Weight	28 lbs	25.5 lbs	34.2 lbs	43 lbs	60.6 lbs
	Line cord	C14 inlet, 5ft 5-15P to C13 line cord	6 ft, 5–15P		6 ft, 5–20P	6 ft, L5–30P
	Receptacles	(3) NEMA 5–15R	(8) NEMA 5–15R		(8) NEMA 5–15/20R	L5–30R + (6) 5–15/20R
ENVIRONMENT	Operating temperature	32–104°F (0–40°C)				
	Altitude	11,500 ft above sea level				
APPROVALS	UL, cUL, RoHS, FCC Class B (1000VA [2U], 1500VA), FCC Class A (1000 VA [1U], 2000VA, 3000VA), TAA compliant (UPS only)					
WARRANTY	3 years electronics, 3 years battery warranty (USA and Canada)					
COMMUNICATIONS INTERFACE	RS-232 (2U), USB, EPO, intelligent slot for optional cards (Web/SNMP, Relay/dry contact)					
INCLUDED IN BOX	ViewPower software, 4-point rail kit with brackets, tower pedestals (2U models only), front brackets					

* 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.

BATTERY RUN TIME (minutes)

	Internal Batteries		External Battery Packs													
			1		2		3		4		5		6		7	
Percentage Load:	50%	100%	50%	100%	50%	100%	50%	100%	50%	100%	50%	100%	50%	100%	50%	100%
UPS9AC-1000	20	8	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
UPS9A-1000	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
UPS9A-1500 (BP36)	10	3	42	17	84	33	120	51	157	72	199	93	244	112	289	128
UPS9A-1500 (BP36E)	10	3	84	33	157	72	244	112	339	146	N/A	N/A	N/A	N/A	N/A	N/A
UPS9A-2000 (BP48)	10	3	42	17	84	33	121	51	157	72	200	93	244	112	290	128
UPS9A-3000 (BP72)	10	3	42	17	84	33	121	52	158	73	201	94	246	112	292	129

NOTE: Maximum of seven battery packs per UPS9A-1500, UPS9A-2000, or UPS9A-3000 (excluding BP36E)

Approximate run times are shown in minutes and vary based on battery condition, age, cycles, and ambient temperature.

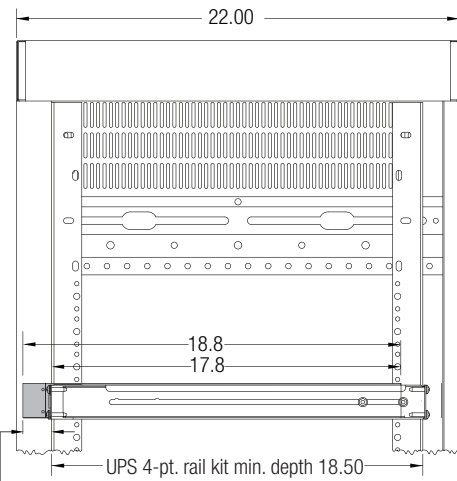
INSTRUCTIONS

Download the user manual at www.LowellMfg.com

4-POINT RACKMOUNT RAIL KIT

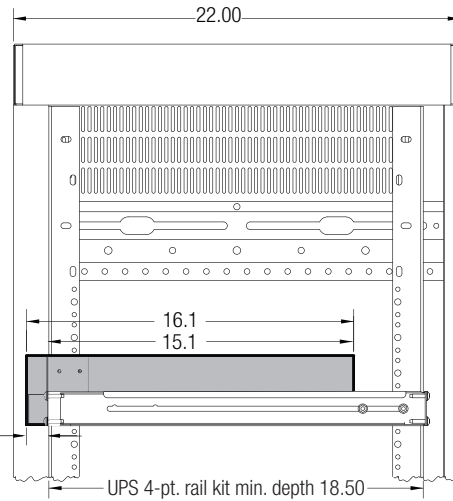
Mounting the UPS to a rack requires front and rear rack rails, as shown. Refer to the series summary chart (pg. 2) to obtain the minimum rack depth required for each UPS model. Note: Minimum depths are provided for Lowell floor racks only.

Lowell Floor Rack – 22”D min. • UPS9AC-1000



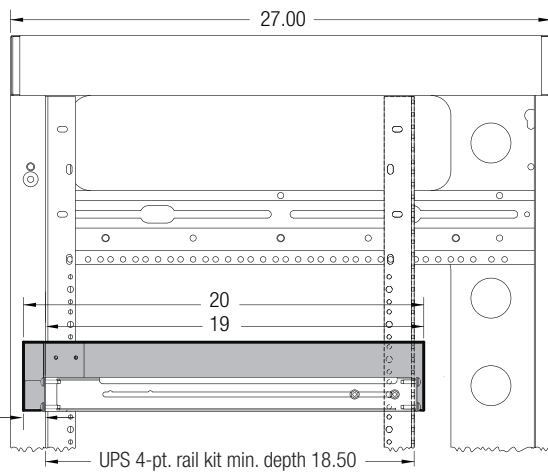
UPS bezel protrudes approx. 1" from rack rail

Lowell Floor Rack – 22”D min. • UPS9A-1000, UPS9A-1500



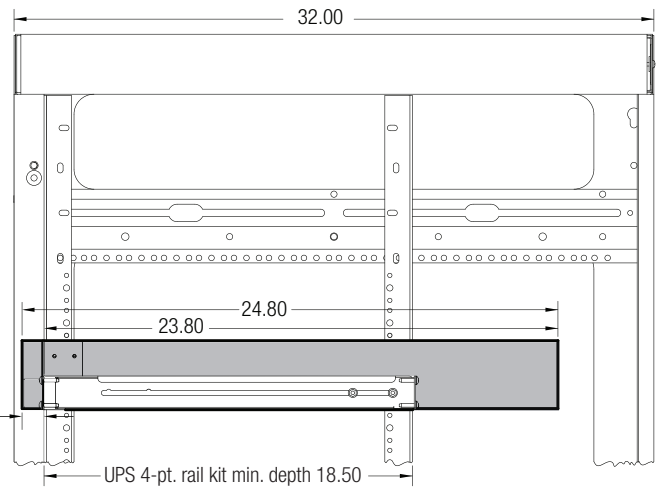
UPS bezel protrudes approx. 1" from rack rail

Lowell Floor Rack – 27”D min. • UPS9A-2000



UPS bezel protrudes approx. 1" from rack rail

Lowell Floor Rack – 32”D min. • UPS9A-3000



UPS bezel protrudes approx. 1" from rack rail