

# HIGH RATE SERIES



## UPS12-200

**VALVE REGULATED  
LEAD ACID BATTERY  
FOR UPS STANDBY  
POWER APPLICATIONS  
12V 54 AH @ 20 HR RATE,  
12V 203 WATTS/CELL  
@ 15 MIN. RATE**

### FEATURES

- Flame-arresting one-way pressure-relief vent for safety and long life.
- Thermally welded case-to-cover bond to eliminate leakage.
- Absorbent Glass Mat (AGM) technology for efficient gas recombination of up to 99% and freedom from electrolyte maintenance.
- Computer-generated grid design optimized for high power density.
- UL-recognized component.
- Multicell design for economy of installation and maintenance.
- Can be mounted in any orientation.
- Not restricted for air transport – Complies with IATA/ICAO Special Provision A67
- Not restricted for surface transport – Classified as non-hazardous material as related to DOT-CFR Title 49 parts 171-189.
- Computer designed lead, low calcium alloy grid for minimal gassing and ease of recycling.
- Case and cover available in both standard and flame retardant polypropylene.
- Flame retardant polypropylene case and cover compliant with UL 1778 (optional).

**12 Volts – 203 Watts Per Cell For 15 Minutes to 1.67 Volts per Cell**

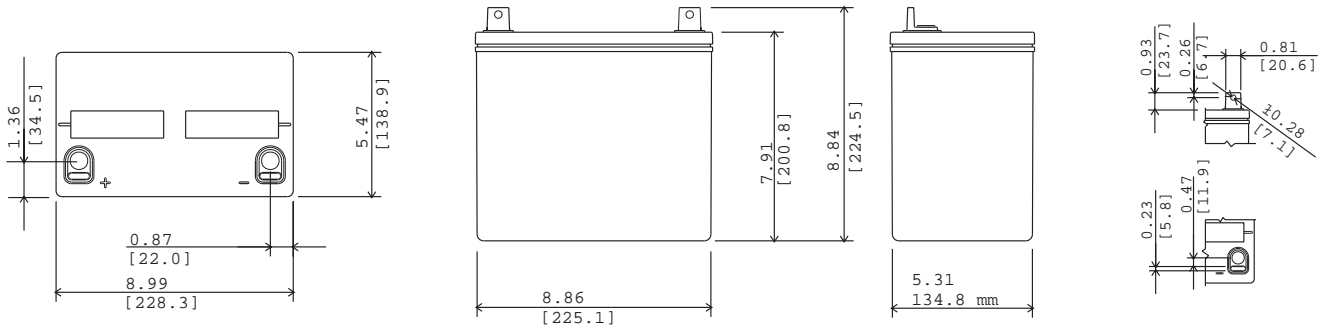
Constant Power Discharge Ratings – Watts Per Cell @ 77°F (25°C)

End Point Volts/Cell	Operating Time to End Point Voltage (in minutes)									
	5	10	15	20	30	40	45	50	60	90
1.67	370	255	203	168	125	101	92	85	74	53

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\*All dimensions in inches and (millimeters). All dimensions are for reference only. Contact a C&D Representative for complete dimensional information.

## UPS12-200 – Specifications

Cells Per Unit	Voltage Per Unit	Weight	Electrolyte	Maximum Discharge Current	Short Circuit Current	Ohms Imped. 60 Hz (Ω)
6	12.84	40 lbs. 18 kg	Absorbed H <sub>2</sub> SO <sub>4</sub> SG = 1.300	600 Amps	3000 Amps @ 0.1 sec.	0.0045 Ohms

<b>Capacity</b>	203 watts per cell at the 15 minute rate to 1.67 volts per cell at 77° F (25° C). 54 Ah @ 20 hr. rate to 1.75 volts per cell @ 77° F (25° C) 49 Ah @ 10 hr rate to 1.80 volts per cell @ 20° C (68° F)
<b>Operating Temperature Range</b>	<b>Discharge;</b> -40° F (-40° C) to +160° F (71° C), <b>Charge;</b> -10° F (-23° C) to +140° F (60° C) (with temperature compensation)
<b>Nominal Operating Temperature Range</b>	+74° F (23° C) to +80° F (27° C)
<b>Float Charging Voltage</b>	13.5 to 13.8 VDC/unit Average at 77° F (25° C).
<b>Recommended Maximum Charging Current Limit</b>	C/5 amperes (10.8 amperes @ 100% depth of discharge) @ 20 hour rate
<b>Equalization and Cycle Service Charging Voltage</b>	14.4 to 14.8 VDC/unit Average at 77° F (25° C).
<b>Maximum AC Ripple (Charger)</b>	0.5% RMS or 1.5% P-P of float charge voltage recommended for best results. Maximum voltage allowed = 1.4% RMS (4 %P-P) Maximum current allowed = 2.7 amperes RMS (C/20)
<b>Self Discharge</b>	Dynasty UPS batteries may be stored for up to 6 months at 77° F (25° C) and then a refreshing charge is required. For higher temperatures the time interval will be shorter.
<b>Accessories</b>	Inter unit connectors, racks and cabinet systems are available.
<b>Terminal</b>	"L" terminal with 0.28" clearance hole to accept 0.25" (6mm) bolt.
<b>Terminal Hardware Initial Torque</b>	40 in.-lbs. (4.5 N-m).
<b>Terminal Hardware Annual Retorque</b>	32 in.-lbs. (3.48 N-m).

## Constant Power Discharge Ratings – Watts Per Cell @ 77°F (25°C)

End Point Volts/Cell	Operating Time to End Point Voltage (in minutes)									
	5	10	15	20	30	40	45	50	60	90
1.75	338	240	194	162	122	99	90	83	72	52
1.70	360	251	200	167	124	100	92	84	73	53
1.67	370	255	203	168	125	101	92	85	74	53
1.65	375	257	204	169	126	101	92	85	74	53
1.60	387	261	206	170	126	102	93	86	74	53

## Constant Current Discharge Ratings – Amperes @ 77°F (25°C)

End Point Volts/Cell	Operating Time to End Point Voltage (in hours)														
	.083	.25	.50	.75	1	2	3	5	8	10	12	20	24	72	100
1.90	131	78.6	51.3	38.9	31.3	18.2	13.0	8.35	5.50	4.49	3.80	2.37	1.99	0.70	0.51
1.85	153	90.4	57.7	43.3	34.5	19.8	14.1	9.05	5.96	4.87	4.12	2.57	2.17	0.76	0.56
1.80	172	98.7	61.9	46.1	36.5	20.8	14.7	9.45	6.21	5.07	4.29	2.67	2.25	0.79	0.58
1.75	189	104	64.4	47.7	37.6	21.3	15.1	9.63	6.32	5.16	4.36	2.72	2.29	0.80	0.59

**Note:** Batteries to be mounted with 0.5 in (1.25 cm) spacing minimum and free air ventilation. Specifications subject to change without notification.