

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

- 10 Year design life @ 25°C (77°F)
- Absorbent Glass Mat (AGM) technology for efficient gas recombination of up to 99% and freedom from electrolyte maintenance.
- Patented flame-arresting one-way pressure-relief valve providing vacuum and controlled backpressure for long life recombinant operation.
- Designed to comply with ANSI and Eurobat battery standards.
- Specifically designed for optimum performance in UPS applications.
- Proprietary computer modeled radial grid matrix using multiple conductors for providing the lowest internal resistance and highest current carrying efficiency.
- Proprietary Fixed Orifice Pasting technology applying active material on both sides of the grid for consistent cell-to-cell performance, highest paste packing efficiency and uniform grid protection.
- Lowest calcium levels among battery manufacturers minimizing grid growth and extending battery life.
- UL-recognized component.
- Thermally welded case-to-cover bond to eliminate leakage.
- Can be mounted in any orientation. Upright, side or end mounting recommended.
- 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.
- 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

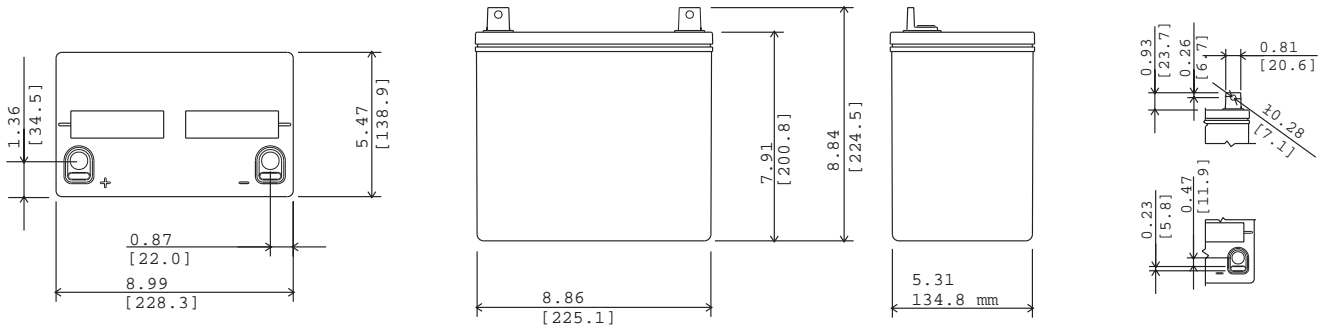
Constant Power Discharge Ratings – Watts Per Cell @ 77°F (25°C)

| 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 | 254 | 203 | 166 | 125 | 101 | 92 | 85 | 74 | 54 |

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UPS12-200



*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 (w) |
|--|------------------|--|---|---------------------------|-----------------------|-----------------------|
| 6 | 12.84 | 40 lbs. 18 kg | Absorbed H ₂ SO ₄ SG = 1.300 | 600 Amps | 3000 Amps @ 0.1 sec. | 0.0045 Ohms |
| Capacity | | 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) | | | | |
| Operating Temperature Range | | Discharge; -40° F (-40° C) to +160° F (71° C), Charge; -10° F (-23° C) to +140° F (60° C) (with temperature compensation) | | | | |
| Nominal Operating Temperature Range | | +74° F (23° C) to +80° F (27° C) | | | | |
| Float Charging Voltage | | 13.5 to 13.8 VDC/unit Average at 77° F (25° C). | | | | |
| Recommended Maximum Charging Current Limit | | C/5 amperes (10.8 amperes @ 100% depth of discharge) @ 20 hour rate | | | | |
| Equalization and Cycle Service Charging Voltage | | 14.4 to 14.8 VDC/unit Average at 77° F (25° C). | | | | |
| Maximum AC Ripple (Charger) | | 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) | | | | |
| Self Discharge | | 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. | | | | |
| Accessories | | Inter unit connectors, racks and cabinet systems are available. | | | | |
| Terminal | | "L" terminal with 0.28" clearance hole to accept 0.25" (6mm) bolt. | | | | |
| Terminal Hardware Initial Torque | | 40 in.-lbs. (4.5 N-m). | | | | |
| Terminal Hardware Annual Retorque | | 32 in.-lbs. (3.48 N-m). | | | | |

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

Operating Time to End Point Voltage (in minutes)

| End Point Volts/Cell | 5 | 10 | 15 | 20 | 30 | 40 | 45 | 50 | 60 | 90 |
|----------------------|-----|-----|-----|-----|-----|-----|----|------|------|------|
| 1.75 | 338 | 243 | 195 | 160 | 121 | 98 | 90 | 83.6 | 72.0 | 52.0 |
| 1.70 | 360 | 250 | 200 | 164 | 124 | 100 | 91 | 84.2 | 73.0 | 53.0 |
| 1.67 | 370 | 254 | 203 | 166 | 125 | 101 | 92 | 85.3 | 73.7 | 53.5 |
| 1.65 | 375 | 257 | 204 | 168 | 126 | 102 | 94 | 86.6 | 74.5 | 54.0 |
| 1.60 | 385 | 262 | 208 | 171 | 128 | 104 | 95 | 88.2 | 76.2 | 55.0 |

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

Operating Time to End Point Voltage (in hours)

| End Point Volts/Cell | .083 | .25 | .50 | .75 | 1 | 2 | 3 | 5 | 8 | 10 | 12 | 20 | 24 | 72 | 100 |
|----------------------|------|-----|-----|-----|------|------|------|------|------|------|------|------|------|------|------|
| 1.90 | 131 | 81 | 52 | 39 | 31.3 | 18.2 | 13.0 | 8.50 | 5.66 | 4.61 | 3.90 | 2.39 | 2.01 | 0.71 | 0.53 |
| 1.85 | 151 | 88 | 56 | 41 | 33.4 | 19.2 | 13.7 | 8.90 | 5.90 | 4.85 | 4.08 | 2.50 | 2.10 | 0.73 | 0.54 |
| 1.80 | 165 | 95 | 60 | 44 | 35.2 | 20.2 | 14.5 | 9.40 | 6.21 | 5.09 | 4.29 | 2.63 | 2.21 | 0.75 | 0.55 |
| 1.75 | 183 | 102 | 62 | 46 | 36.7 | 20.9 | 15.0 | 9.70 | 6.46 | 5.28 | 4.47 | 2.72 | 2.28 | 0.78 | 0.57 |

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