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).

UPS12-475
VALVE REGULATED LEAD ACID BATTERY FOR UPS STANDBY POWER APPLICATIONS
12V 134 AH @ 20 HR RATE,
12V 475 WATTS/CELL @ 15 MIN. RATE

12 Volts – 475 Watts Per Cell For 15 Minutes to 1.67 Volts per Cell
Constant Power Discharge Ratings – Watts Per Cell @ 77°F (25°C)

<table>
<thead>
<tr>
<th>End Point Volts/Cell</th>
<th>Operating Time to End Point Voltage (in minutes)</th>
</tr>
</thead>
<tbody>
<tr>
<td>5</td>
<td>10</td>
</tr>
<tr>
<td>1.67</td>
<td>745</td>
</tr>
</tbody>
</table>

C&D Technologies, Inc.
DYNASTY Division
900 East Keefe Avenue
Milwaukee, WI 53212
Phone: 800-396-2789
Fax: 414-961-6506
## UPS12-475 – Specifications

<table>
<thead>
<tr>
<th>Cells Per Unit</th>
<th>Voltage Per Unit</th>
<th>Weight</th>
<th>Electrolyte</th>
<th>Maximum Discharge Current</th>
<th>Short Circuit Current</th>
<th>Ohms Imped. 60 Hz (Ω)</th>
</tr>
</thead>
<tbody>
<tr>
<td>6</td>
<td>12.84</td>
<td>100 lbs. 45 kg</td>
<td>Absorbed H₂SO₄ SG = 1.300</td>
<td>800 Amps</td>
<td>5000 Amps @0.1 sec.</td>
<td>0.0023 Ohms</td>
</tr>
</tbody>
</table>

**Capacity**
- 475 watts per cell at the 15 minute rate to 1.67 volts per cell at 77°F (25°C).
- 134 Ah @ 20 hr. rate to 1.75 volts per cell @77°F (25°C).
- 122 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**
- 0.75 amperes (27 amperes @100% depth of discharge)

**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 = 6.7 amperes (C/20)

**Self Discharge**
- Dynasty UPS batteries may be stored for up to 6 months at 77°F (25°C) and then a freshening charge is required. For higher temperatures the time interval will be shorter.

**Accessories**
- Inter unit connectors, racks and cabinet systems are available.

**Terminal Hardware Initial Torque**
- "L" terminal with 0.28" clearance hole to accept 0.25" (6mm) bolt.

**Terminal Hardware Annual Retorque**
- 110 in.-lbs. (12.4 N-m)

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

<table>
<thead>
<tr>
<th>End Point Volts/Cell</th>
<th>Operating Time to End Point Voltage (in minutes)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.75</td>
<td>5 10 15 20 30 40 45 50 60 90</td>
</tr>
<tr>
<td>1.70</td>
<td></td>
</tr>
<tr>
<td>1.67</td>
<td></td>
</tr>
<tr>
<td>1.65</td>
<td></td>
</tr>
<tr>
<td>1.60</td>
<td></td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>End Point Volts/Cell</th>
<th>Operating Time to End Point Voltage (in hours)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.90</td>
<td>1 2 3 5 8 10 12 24</td>
</tr>
<tr>
<td>1.85</td>
<td></td>
</tr>
<tr>
<td>1.80</td>
<td></td>
</tr>
<tr>
<td>1.75</td>
<td></td>
</tr>
</tbody>
</table>

*All dimensions in inches and (millimeters). All dimensions are for reference only.

Contact a C&D Representative for complete dimensional information.

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