FEATURES & BENEFITS

- True Front Access threaded copper alloy inserts for reduced maintenance and increased safety
- Terminal versatility - ease of diagnostic readings with C&D Ohmic Ring®
- Innovative front terminal design maximizing energy density with direct connect extrusion fusion weld technology
- Reduced headspace driving higher energy density, in cabinet or rack applications
- Removable handles for ease of installation
- Thermally welded case-to-cover bond to ensure a leak-proof seal
- Flame-retardant polypropylene case and cover compliant with UL94 V-0 with an Oxygen Limiting Index of greater than 28
- Absorbent Glass Mat (AGM) technology for efficient gas recombination of over 99%
- Optional True Front Access gas collection system
- Multicell design for ease of installation and maintenance
- UL-recognized component
- Compliant to major global specifications
  - UL1778, 924, 1989
  - BS 6290-4
  - IEC 896-2
  - UL94 V-0
- Not restricted for air transport - Complies with IATA/ICAO Special Provision A87
- Not restricted for surface transport - classified as non-hazardous material as related to DOT-CFR Title 49 parts 171-189
- Not restricted for water transport - classified as non-hazardous material per Amendment 27
- 3 Year Full Warranty (refer to Dynasty warranty card, 41-9027)

SPECIFICATIONS

<table>
<thead>
<tr>
<th>Model Number</th>
<th>Voltage Per Unit</th>
<th>Operating Time (in minutes) to 1.67 volts per cell</th>
</tr>
</thead>
<tbody>
<tr>
<td>UPS12-355MRF</td>
<td>12 V</td>
<td>108 Ah</td>
</tr>
<tr>
<td></td>
<td></td>
<td>5</td>
</tr>
<tr>
<td></td>
<td></td>
<td>591.3</td>
</tr>
</tbody>
</table>

*Nominal 20 hr rate to 1.75 VPC in Ampere-Hours
**SPECIFICATIONS**

<table>
<thead>
<tr>
<th>Model</th>
<th>Cells per Unit</th>
<th>Battery Weight</th>
<th>Maximum Terminal Discharge Current Rating (AMPS)</th>
<th>Ohms Impedance 60 Hz (Ω)</th>
</tr>
</thead>
<tbody>
<tr>
<td>UPS12-355MRF</td>
<td>6</td>
<td>80</td>
<td>800</td>
<td>0.0030</td>
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</tbody>
</table>

**DIMENSIONS**

<table>
<thead>
<tr>
<th>MODEL</th>
<th>A in mm</th>
<th>B in mm</th>
<th>C in mm</th>
<th>D in mm</th>
<th>E in mm</th>
<th>F in mm</th>
<th>G in mm</th>
<th>H in mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>UPS12-355MRF</td>
<td>18.5</td>
<td>469</td>
<td>19.5</td>
<td>496</td>
<td>20.1</td>
<td>511</td>
<td>18.5</td>
<td>479</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.*

- **Operating Temperature Range with temperature compensation**
  - Discharge: -40°F (-40°C) to +160°F (71°C)
  - Charge: -10°F (-23°C) to +140°F (60°C)

- **Nominal Operating Temperature Range**
  +68°F (20°C) to +80°F (27°C)

- **Recommended Maximum Charging Current Limit**
  - C/5 amperes @ 20 Hr rate

- **Float Charging Voltage**
  - 13.5 to 13.8 VDC average per 12V unit

- **Maximum AC Ripple (Charger)**
  - 0.5% RMS or 1.5% P-P of float charge voltage recommended for best results.
  - Max voltage allowed = 1.4% RMS (4% P-P) Max current allowed = C/20

- **Self Discharge**
  - Battery can be stored up to 6 months at 77°F (25°C) before a freshening charge is required. Batteries stored at temperatures greater than 77°F (25°C) will require recharge sooner than batteries stored at lower temperatures. See C&D brochure 41-7272, Self-Discharge and Inventory Control for details.

- **Equalize charge and cycle service voltage**
  - 14.40 to 14.80 VDC average per 12V unit @ 77°F (25°C)

- **Terminal: Inserted - Inter-unit connector provided**
  - Threaded copper alloy insert terminal to accept M6 bolt

- **Terminal Hardware Initial Torque:**
  - 110 in.-lbs. (12.4 N-m)

**UPS 12-355MRF**

<table>
<thead>
<tr>
<th>Constant Power Discharge Ratings - Watts Per Cell @ 77°F (25°C)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating Time to End Point Voltage (in minutes)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>End Point Volts/Cell</th>
<th>5</th>
<th>10</th>
<th>15</th>
<th>20</th>
<th>30</th>
<th>40</th>
<th>45</th>
<th>50</th>
<th>60</th>
<th>90</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.75</td>
<td>543.9</td>
<td>411.8</td>
<td>334.9</td>
<td>283.3</td>
<td>220.6</td>
<td>183.8</td>
<td>170.6</td>
<td>159.6</td>
<td>142.2</td>
<td>103.1</td>
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<tr>
<td>1.70</td>
<td>578.3</td>
<td>431.1</td>
<td>350.5</td>
<td>294.0</td>
<td>226.0</td>
<td>188.0</td>
<td>174.4</td>
<td>163.0</td>
<td>145.1</td>
<td>104.7</td>
</tr>
<tr>
<td>1.67</td>
<td>591.3</td>
<td>440.8</td>
<td>385.4</td>
<td>299.7</td>
<td>229.4</td>
<td>190.5</td>
<td>176.6</td>
<td>164.9</td>
<td>146.6</td>
<td>105.6</td>
</tr>
<tr>
<td>1.65</td>
<td>600.6</td>
<td>447.7</td>
<td>364.0</td>
<td>303.7</td>
<td>231.7</td>
<td>192.5</td>
<td>178.5</td>
<td>166.8</td>
<td>148.3</td>
<td>106.5</td>
</tr>
</tbody>
</table>

Note: Specifications subject to change without notification. Above ratings do not include interunit connector voltage drops.

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