**APPLICATIONS**

- Data Centers
- Network Operations Centers
- Industrial Process Control Facilities
- Internet Hosting Sites
- Semiconductor Manufacturing
- Banks & Financial Markets
- Power Generation Plants
- Hospitals & Testing Laboratories
- Emergency 911 Response Centers

**FEATURES & BENEFITS**

- 10 Year Design Life @ 25°C
- 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 requirements resulting in higher energy density for 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%.
- Flame-arresting, one-way pressure-relief vent for safety and long life.
- Complies with UL1778, 924, 1989 and 94 V-0, BS6290-4, IEC-896-2.
- UL-recognized component.
- Multicell design for ease of installation and maintenance.
- 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.
- Not restricted for water transport - classified as non-hazardous material per Amendment 27.

**SPECIFICATIONS**

<table>
<thead>
<tr>
<th>Model</th>
<th>Voltage</th>
<th>AH 20 hr*</th>
<th>Constant Power Discharge Ratings - Watts per Cell @ 77°F (25°F)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>Operating Time (in minutes) to 1.67 Volts per Cell</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>5</td>
</tr>
<tr>
<td>UPS12-615MRF</td>
<td>12</td>
<td>176</td>
<td>939</td>
</tr>
<tr>
<td>UPS12-700MRF</td>
<td>12</td>
<td>206</td>
<td>1059</td>
</tr>
</tbody>
</table>

*Nominal 20 hr rate to 1.75 VPC in Ampere-Hours @ 25°C
INTRODUCING A UPS FRONT ACCESS BATTERY WITH TRUE FRONT ACCESS TERMINALS

- Direct welded front facing terminals
  - Uses proven Dynasty Extrusion Fusion welding process for high reliability
  - Provides most efficient current path for excellent high rate performance
  - No bolted on “L” brackets which try to make a top terminals battery into a front terminal battery
  - One less bolted connection that requires maintenance, minimizes resistance, that can lead to poor string performance
- Designed as a UPS battery from the ground up to efficiently handle high rate discharges
  - Not a converted telecom front access battery
- Raised Terminals for ease of maintenance and access to C&D Ohmic Ring®

C&D Ohmic Ring®

- Large surface area for direct access to terminals for accurate ohmic measurements
  - No more taking readings from bus bars or hardware which can lead to substantial errors
- Provides consistent and accurate measuring location
  - No guessing of the location used for the base line reading
- Ideally sized for use with standard monitor probes on fully installed systems
- The Ohmic Ring design is the only terminal configuration in which micro-ohm connection resistances can be taken as required by standard maintenance programs.

The Dynasty True Front Access UPS Battery - The Better UPS Battery Solution

- Eliminate hard to service top terminal batteries with a full front access solution
- Higher watts per cell allows a reduction of a parallel string for most common UPS configurations, providing a reduced footprint solution
- Maintenance is significantly easier and safer with all required service points front accessible - reducing both time and cost of periodic servicing
- As a 12V battery design, the UPS12-615MRF and UPS12-700MRF models easily integrate with existing battery monitoring equipment.
### SPECIFICATIONS

| 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) |
<table>
<thead>
<tr>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Nominal Operating Temperature Range</td>
</tr>
<tr>
<td>Recommended Maximum Charging Current Limit</td>
</tr>
<tr>
<td>Float Charging Voltage</td>
</tr>
</tbody>
</table>
| 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 = C20/20 |
| 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  
1/4-20 UNC bolt |
| Terminal Hardware Torque                                  | 110 in.-lbs. (12.4 N-m) |

### SPECIFICATIONS

<table>
<thead>
<tr>
<th>Model</th>
<th>Cells per Unit</th>
<th>Battery Weight lbs</th>
<th>Weight kg</th>
<th>Maximum Terminal Discharge Current Rating (Amps)</th>
<th>Short Circuit Current (Amps @ 0.1 sec)</th>
<th>Ohms 60 Hz (Ω)</th>
</tr>
</thead>
<tbody>
<tr>
<td>UPS12-615MRF</td>
<td>6</td>
<td>115</td>
<td>53</td>
<td>800</td>
<td>4500</td>
<td>0.0020</td>
</tr>
<tr>
<td>UPS12-700MRF</td>
<td>6</td>
<td>131</td>
<td>60</td>
<td>800</td>
<td>4600</td>
<td>0.0021</td>
</tr>
</tbody>
</table>

### OHMIC VALUES

<table>
<thead>
<tr>
<th>Model</th>
<th>Ohmic Values</th>
<th>HP</th>
<th>Alber</th>
<th>Midtronics</th>
<th>VAC Biddle</th>
</tr>
</thead>
<tbody>
<tr>
<td>UPS12-615MRF</td>
<td>2.0</td>
<td>569</td>
<td>569.3</td>
<td>2400</td>
<td>2.3</td>
</tr>
<tr>
<td>UPS12-700MRF</td>
<td>2.1</td>
<td>3480</td>
<td>2500</td>
<td>2.4</td>
<td></td>
</tr>
</tbody>
</table>

* Per IEEE 1188-2005, Internal ohmic values are useful as a trending tool. To use these readings effectively, accurate baseline readings should be taken after about six months of battery operation. Internal ohmic readings taken without the benefit of baseline data may be difficult to interpret and of limited value. Values provided are for reference only.

<table>
<thead>
<tr>
<th>Short Circuits</th>
<th>Current in mm</th>
<th>Current in kg</th>
<th>Current in Amps</th>
</tr>
</thead>
<tbody>
<tr>
<td>UPS12-615MRF</td>
<td>0.0020</td>
<td>0.0020</td>
<td>4500</td>
</tr>
<tr>
<td>UPS12-700MRF</td>
<td>0.0021</td>
<td>0.0021</td>
<td>4600</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Dimensions</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
<th>H</th>
</tr>
</thead>
<tbody>
<tr>
<td>UPS12-615MRF</td>
<td>20.35</td>
<td>516.9</td>
<td>21.51</td>
<td>546.3</td>
<td>22.01</td>
<td>509.1</td>
<td>20.16</td>
<td>512.2</td>
</tr>
<tr>
<td>UPS12-700MRF</td>
<td>20.35</td>
<td>516.9</td>
<td>21.51</td>
<td>546.3</td>
<td>22.01</td>
<td>509.1</td>
<td>20.16</td>
<td>512.2</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.
### BATTERY RACKS:
- IBC 300% certified racks available up to 5 tiers high
- Each 5 tier rack holds 20 TFA batteries
- Accessory kits with cables and terminal plates developed for ease of system configuration and installation

### BATTERY CABINETS:
- All popular DC links available 120V-480V
- Supplied with a breaker or fuse per string
- Available in stand-alone or multiple cabinet configurations
- Online configurator: www.cdtechno.intrapak.com