CABINET SYSTEM FEATURES
• Complete Battery Systems including battery disconnect, battery connections and optional battery monitor system wiring.
• Factory assembled cabinets are UL1778 listed.
• Rugged powder-coated, steel cabinets.
• Designed for UBC Seismic Zone 4 compliance.
• Many high quality battery disconnect options.
• Batteries are anchored to prevent damage in transit.
• Integrated convection cooling to extend battery life.

APPLICATIONS
• UPS Systems located in computer rooms and office environments.
• Process Control applications requiring batteries to be protected behind closed doors (not for outdoor use).

BENEFITS
• Systems are delivered pre-assembled, wired and tested for quicker, easier installation.
• Systems provide end users with higher reliability by using C&D batteries that are tested at factory and prior to cabinet installation.
• Hinged front doors and smart cable routing provides safe and easy access to battery terminals for maintenance.
• Systems are provided by a single source - C&D - known for reliable battery products and superior customer support.
SYSTEM DISCONNECT OPTIONS (ALL INTEGRITY CABINETS)

BREAKERS

• 600 VDC Breakers used on all 480 VDC nominal voltage cabinet systems
• All breakers are UL listed.
• Supplied breakers have auxiliary contacts standard
• Available standard options
  • 24 VDC or 48 VDC shunt trip
  • 24 VDC or 48 VDC UVR (under voltage relay)
• Other options are available upon request
• Standard customer breaker connection
  • Cable terminal with compression screw

<table>
<thead>
<tr>
<th>Breaker Rating</th>
<th>Conductor Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>&lt; 100 AMP</td>
<td>14 AWG - 1/0</td>
</tr>
<tr>
<td>125 - 225 AMP</td>
<td>4AWG - 300 kcmil</td>
</tr>
<tr>
<td>250 AMP</td>
<td>6AWG - 350 kcmil</td>
</tr>
<tr>
<td>300 - 800 AMP</td>
<td>(2) 250 - 500 kcmil</td>
</tr>
</tbody>
</table>

FUSE

• Fast-acting low I^2T to prevent catastrophic failure
• 700 VDC fuses use on all 480 VDC nominal voltage cabinet systems
• Low cost disconnect alternative to circuit breakers
BATTERY CABINET SYSTEMS

- Four standard models - EC20, EC30, EC40 & EC50
- UL listed up to 600 AMPS
- Specifically designed to fit Dynasty High Rate Max top terminal batteries
- Quality valve-regulated, Absorbent Glass Mat batteries for UPS applications. Patented long-life alloy, proprietary plate pasting technology and leak-free case-to-cover bonds provide the reliable operation and long life for which Dynasty batteries are known. See brochure 41-9027 for more information.
- C&D Liberty battery configuration available on request

CABINETS - DYNASTY TOP TERMINAL BATTERIES

CABINETS SPECIFICATIONS

<table>
<thead>
<tr>
<th>Cabinet Model</th>
<th>Width in (mm)</th>
<th>Depth in (mm)</th>
<th>Height in (mm)</th>
<th>Weight Empty lbs. (kg)</th>
<th>Maximum Weight Cabinet w/Batteries lbs. (kg)</th>
<th>Maximum kWb per Cabinet@ 15 Min kWb @ 1.67EPV at 77°F(25°C)</th>
</tr>
</thead>
<tbody>
<tr>
<td>EC20</td>
<td>32.00 (812.8)</td>
<td>29.23 (742.4)</td>
<td>60.00 (1,524.0)</td>
<td>380 (172.4)</td>
<td>2,580 (1170.3)</td>
<td>39.6 UPS12-210MR</td>
</tr>
<tr>
<td>EC30</td>
<td>36.13 (917.7)</td>
<td>29.60 (751.8)</td>
<td>70.75 (1,797.1)</td>
<td>480 (217.7)</td>
<td>3,680 (1669.2)</td>
<td>67.2 UPS12-300MR</td>
</tr>
<tr>
<td>EC40</td>
<td>36.13 (917.7)</td>
<td>29.60 (751.8)</td>
<td>78.75 (2000.3)</td>
<td>550 (249.5)</td>
<td>3,750 (1,701.0)</td>
<td>102.5 UPS12-540MR</td>
</tr>
<tr>
<td>EC50</td>
<td>40.13 (1,019.3)</td>
<td>29.23 (742.4)</td>
<td>83.5 (2065.3)</td>
<td>585 (265.4)</td>
<td>4,585 (2,079.7)</td>
<td>102.5 UPS12-540MR</td>
</tr>
</tbody>
</table>

Notes:
- The above listed DC power ratings are for individual cabinets based on the largest High Rate Max battery that will fit.
- Other Power Ratings can be configured within each Cabinet Model by changing battery model.
- The Power Rating for any given DC voltage can be increased by paralleling Cabinets.
- Maximum breaker size: 250 Amps
- Maximum breaker size: 400 Amps

Quantity of UPS High Rate Max batteries that fit into each cabinet model

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<tr>
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</thead>
<tbody>
<tr>
<td>EC20</td>
<td>50</td>
<td>50</td>
<td>42</td>
<td>30</td>
<td>22</td>
<td>22</td>
</tr>
<tr>
<td>EC30</td>
<td>74</td>
<td>54</td>
<td>54</td>
<td>34</td>
<td>30</td>
<td>30</td>
</tr>
<tr>
<td>EC40</td>
<td>60</td>
<td>48</td>
<td>48</td>
<td>40</td>
<td>40</td>
<td>32</td>
</tr>
<tr>
<td>EC50</td>
<td>60</td>
<td>48</td>
<td>48</td>
<td>40</td>
<td>40</td>
<td>40</td>
</tr>
</tbody>
</table>

Top Terminal Battery Weights

<table>
<thead>
<tr>
<th>Model</th>
<th>UPS12-100MR</th>
<th>UPS12-150MR</th>
<th>UPS12-210MR</th>
<th>UPS12-300MR</th>
<th>UPS12-350MR</th>
</tr>
</thead>
<tbody>
<tr>
<td>lbs (kg)</td>
<td>21.0 (10.0)</td>
<td>27.3 (12.4)</td>
<td>40.0 (18.0)</td>
<td>58.4 (26.5)</td>
<td>67.4 (30.5)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
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<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>lbs (kg)</td>
<td>75.8 (34.4)</td>
<td>83.0 (38.0)</td>
<td>100.0 (45.0)</td>
<td>100.0 (45.0)</td>
<td>72.0 (33.0)</td>
</tr>
</tbody>
</table>
CABINETS - DYNASTY TRUE FRONT ACCESS BATTERIES

TWO STANDARD MODELS

- **EC60** (space saver) for UPS12-700MRF
  - 8 jars wide x 5 tiers high
  - smallest footprint 480V cabinet
  - UL listed to 600 AMPS

- **EC70**
  - For UPS12-615MRF
  - 8 jars wide x 5 tiers high
  - UL listed to 600 AMPS

- **EC80**
  - For UPS12-700MRF
  - 10 jars wide x 4 tiers high
  - UL listed up to 800 AMPS
  - Systems greater than 600 AMPS have UL required external door mounted trip handle.

DYNASTY TRUE FRONT ACCESS BATTERIES

The UPS12-615 MRF and UPS12-700MRF batteries are True Front Access Batteries with front terminal service benefits, reliable ohmic readings using the C&D Ohmic Ring®, and a high power compact footprint that is an ideal fit for today’s larger UPS sizes. See brochure 12-1037 for more information.

- **UPS12-700MRF** Weight: 131 lbs (60kg)
- **UPS12-615MRF** Weight: 115 lbs (53kg)

SPECIFICATIONS

<table>
<thead>
<tr>
<th>Cabinet Model</th>
<th>UPS TFA Battery Model</th>
<th>Width in. (mm)</th>
<th>Depth in. (mm)</th>
<th>Height in. (mm)</th>
<th>Weight Empty lbs. (kg)</th>
<th>Maximum Weight Cabinet w/ Batteries1</th>
<th>Maximum kWb per Cabinet2 15 Min kWb @ 1.67EPV at 77°F(25°C)</th>
<th>Maximum # Batteries / Cabinet</th>
</tr>
</thead>
<tbody>
<tr>
<td>EC60 700MRF</td>
<td>45 (1143)</td>
<td>31 (787)</td>
<td>76 (1930)</td>
<td>850 (386)</td>
<td>6,090 (2762)</td>
<td>134.4</td>
<td>168.0</td>
<td>2</td>
</tr>
<tr>
<td>EC70 615MRF</td>
<td>56 (1422)</td>
<td>72 (1829)</td>
<td>963 (437)</td>
<td>6,203 (2814)</td>
<td>6,450 (2472)</td>
<td>118.1</td>
<td>147.6</td>
<td>40</td>
</tr>
</tbody>
</table>

1 With std. handtruck weight limits of 5000 lbs max., option is available to have 16-20 batteries shipped on a pallet

2 The Power Rating for any given DC voltage can be increased by paralleling Cabinets.