

## **NTEGRITY**

# **BATTERY CABINET SYSTEMS**

**FOR TOP TERMINAL  
& FRONT ACCESS UPS BATTERIES**



### **BATTERY CABINET SYSTEMS**

Complete, pre-packaged battery cabinet systems are available direct from C&D Technologies a leading manufacturer of Mid-Sized and Enterprise Level Critical System battery protection. Systems include battery breaker or fuse, battery cabling and batteries – all installed and ready to connect to UPS upon installation.

Powder-coated steel cabinets are ETL, CSA and UL1778 listed and designed for seismic zone 4 compliance. Fast acting fuses or circuit breakers are provided for system protection. Cabling is UL listed flexible type to reduce stress on battery connections. Batteries are tested to assure system integrity.

Mechanical robustness, approved electrical disconnects and high quality C&D batteries all combine to provide an easily installed complete battery system with the finished appearance of a UPS cabinet.

### **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).

### **CABINET SYSTEM FEATURES**

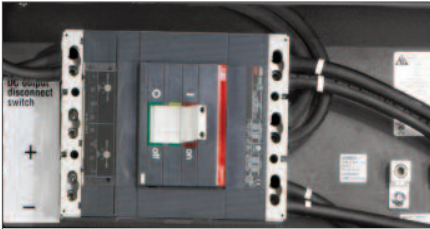
- Complete Battery Systems including battery disconnect, battery connections and optional battery monitor system wiring.
- Factory assembled cabinets are UL1778 listed.
- Rugged powder-coated, steel cabinets.
- Designed for Seismic Zone 4 compliance.
- Many high quality battery disconnect options.
-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

### **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 *NTEGRITY* CABINETS)

### BREAKERS



- 600 VDC Breakers used on all 480 VDC nominal voltage cabinet systems
- All breakers are UL listed.
- Supplied breakers have auxilliary 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

Breaker Rating	Conductor Size
< 100 AMP	14 AWG - 1/0
125 - 225 AMP	4AWG - 300 kcmil
250 AMP	6AWG - 350 kcmil
300 - 800 AMP	(2) 250 - 500 kcmil



### FUSE

- Fast-acting low I<sup>2</sup>T to prevent catastrophic failure
- 700 VDC fuses use on all 480 VDC nominal voltage cabinet systems
- Low cost disconnect alternative to circuit breakers

## CABINETS - DYNASTY TOP TERMINAL BATTERIES

### 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 SPECIFICATIONS

Cabinet Model	Width in (mm)	Depth in (mm)	Height in (mm)	Weight Empty lbs. (kg)	Maximum Weight Cabinet w/Batteries	Maximum kWb per Cabinet <sup>1</sup> 15 Min kWb @ 1.67EPV at 77°F(25°C)	
					lbs. (kg) UPS12-540MR	1 String, 384VDC	1 String, 480VDC
EC20 <sup>2</sup>	32.00 (812.8)	29.23 (742.4)	60.00 (1,524.0)	380 (172.4)	2,580 (1170.3)	39.6 UPS12-210MR	83.5 UPS12-350MR
EC30 <sup>3</sup>	36.13 (917.7)		70.75 (1,797.1)	480 (217.7)	3,680 (1669.2)	67.2 UPS12-300MR	128.9 UPS12-540MR
EC40	36.13 (917.7)	29.60 (751.8)	78.75 (2000.3)	550 (249.5)	3,750 (1,701.0)	102.5 UPS12-540MR	128.9 UPS12-540MR
EC50	40.13 (1,019.3)			585 (265.4)	4,585 (2,079.7)	102.5 UPS12-540MR	128.9 UPS12-540MR

<sup>1</sup>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.

<sup>2</sup>Maximum breaker size: 250 Amps

<sup>3</sup>Maximum breaker size: 400 Amps

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

Cabinet Model	UPS12-100MR	UPS12-150MR	UPS12-210MR	UPS12-300MR	UPS12-350MR	UPS12-400MR, UPS12-490MR, UPS12-490MRLP, UPS12-540MR, UPS6-620MR
EC20	50	50	42	30	22	22
EC30	74	54	54	34	30	30
EC40		60	48	40	40	32
EC50			60	48	48	40

#### Top Terminal Battery Weights

Model	UPS12-100MR	UPS12-150MR	UPS12-210MR	UPS12-300MR	UPS12-350MR
lbs (kg)	21.0 (10.0)	27.3 (12.4)	40.0 (18.0)	58.4 (26.5)	67.4 (30.5)
Model	UPS12-400MR	UPS12-490MRLP	UPS12-490MR	UPS12-540MR	UPS6-620MR
lbs (kg)	75.8 (34.4)	83.0 (38.0)	100.0 (45.0)	100.0 (45.0)	72.0 (33.0)

## CABINETS - DYNASTY TRUE FRONT ACCESS BATTERIES



### TWO STANDARD MODELS

- EC60 (space saver)
  - 8 jars wide x 5 tiers high
  - smallest footprint 480V cabinet
  - UL listed up to 600 AMPS
- EC80
  - 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



Newest addition to the Dynasty High Rate Max family. The UPS12-700MRF battery is a True Front Access Battery 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 (59.4kg)

## SPECIFICATIONS

Cabinet Model	Width in. (mm)	Depth in. (mm)	Height in. (mm)	Weight Empty lbs. (kg)	Maximum Weight Cabinet w/ Batteries <sup>1</sup>	Maximum kWb per Cabinet <sup>2</sup> 15 Min kWb @ 1.67EPV at 77°F(25°C)		Maximum # Batteries / Cabinet
					lbs. (kg)	1 String, 384VDC	1 String, 480VDC	
EC60	45 (1143)	31 (787)	76 (1930)	850 (386)	6090 (2762)	134.4	168.0	40
EC80	56 (1422)		72 (1829)	963 (437)	6203 (2814)			40

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

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

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