



# MCT - HP

## STANDBY BATTERIES FOR LARGE POWER APPLICATIONS 4000 AMPERE-HOURS



Every Cell  
**100%**  
capacity tested

### FEATURES AND BENEFITS

C&D Technologies flooded batteries are engineered to provide superior performance and reliability over the life of the product. These batteries are designed using proprietary techniques and quality components and materials for reduced maintenance and extended battery life.

- Optimized for today's Telecom applications
- 4000 Amp-hours capacity
- NEBS level 3 certified
- Transparent container allows visual inspection of plates
- Container wall stiffening rim to reinforce jar integrity
- Container support cradle adds durability, restrains bulge at elevated temperatures, enhances seismic performance, and functions as cell spacer
- Flame-retardant covers enhance battery plant safety
- Soft rubber post seal absorbs shock and vibration
- Long life positive plates cast with a proprietary process and alloy
- CLEI number: PWCYAV4BRA
- CPR number: 215023

### SPECIFICATIONS

Plates	Height	Width
Positive	18.75 in (476 mm)	12.80 in (325 mm)
Negative	18.75 in (476 mm)	12.80 in (325 mm)
Recommended Float Voltage	2.17-2.22 @ 1.215 specific gravity	
Recommended Operating Temperature	60°F (15°C) – 90°F (32°C)	
Operating Temperature Limits	32°F (0°C) – 120°F (49°C)	
Recommended Operating Humidity	0% - 100% Relative Humidity (Non-Condensing)	
Electrolyte Height Above Places	3.55 in (90 mm)	
Sediment Space	1.25 in (32 mm)	
Electrolyte at 77°F (25°C)	Sulfuric acid, 1.215 specific gravity nominal (optional 1.250)	
Container Material (Transparent)	High-impact, flame-retardant thermoplastic (PVC). Flammability ratings: UL94 V-0; LOI > 33	
Container Support Cradle	High-impact, flame-retardant thermoplastic. Flammability ratings: UL94 V-0; LOI > 28; ASTM D-635 self-extinguishing	
Cover	High-impact, flame-retardant thermoplastic (PVC), with tongue-and-groove seal. Flammability ratings: UL94 V-0; LOI > 33; ASTM D-635 self-extinguishing	
Separator	PVC	
Retainer	Fibrous glass mat	
Safety Vent System	Flame arrester type	
Terminals	Four 1.375 in (35mm) square posts per cell	
Electrolyte Withdrawl Types	Two per cell	
Intercell Connectors	Lead-plated copper (Stainless steel hardware)	

# CELL SPECIFICATIONS

Type of Cell	Cells Per Unit	Plates per Cell	Overall Dimensions			Approx. wt. lbs (kgs)		Gal. (Liters)	Electrolyte		Internal Resistance** (ohms)
			L in (mm)	W in (mm)	H in (mm)	Net Filled	Dom. Packed	Electrolyte per Cell	Weight per Cell*		
MCT II -4000 HP	1	45	15.19 (386)	17.32 (440)	28.9 (735)	675 (306)	720 (327)	17 (64)	170 (77)	.000094	

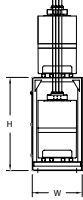
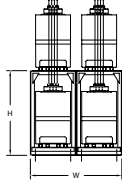
\* Electrolyte weighs approximately 10 lbs. per gallon (1.210 kg per liter).  
 \*\*Includes connector.

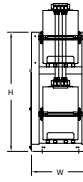
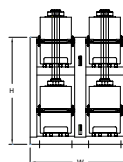
# CELL RATINGS

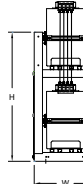
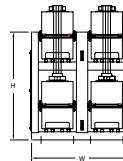
Nominal Rates at 77°F (25°C) (includes connector voltage drop) • Amperes							
Final Volts	30 Min	1 Hr	2 Hr	3 Hr	4 Hr	5 Hr	8 Hr
1.88	1144.2	1062.7	896.6	747.8	632.8	548.2	398.0
1.86	1315.1	1199.2	978.6	802.9	676.8	586.1	424.2
1.84	1479.7	1307.4	1024.7	833.2	703.6	611.2	444.0
1.80	1800.9	1531.1	1141.3	910.2	762.4	659.2	475.2
1.75	2146.1	1713.3	1214.7	959.9	802.6	693.8	500.0

For additional rate data please consult C&D's battery sizing program ([www.cdstandbypower.net](http://www.cdstandbypower.net)).

# RACK SPECIFICATIONS

STANDARD (NON-SEISMIC) (UBC 0)						
Number of Cells	Two tier/One row Model RD02083-(L) Width: 22.50 in (572 mm) Height: 43.69 in (1110 mm)			Two tier/Two row Model RD02059-(L) Width: 45.38 in (1152 mm) Height: 43.69 in (1110 mm)		
	Length - (L)	Weight		Length - (L)	Weight	
	FT (mm)	LBS (kgs)		FT (mm)	LBS (kgs)	
12	8 (2438)	350 (159)	-	-	-	
24	16 (4877)	640 (290)	8 (2438)	600 (272)	-	
48	-	-	16 (4877)	1200 (544)	-	

SEISMIC BELLCORE ZONE 2 (UBC 3&4)						
Number of Cells	Two tier/One row Model RD02083-(L)-BC2 Width: 28.50 in (724 mm) Height: 58.50 in (1486 mm)			Two tier/Two row Model RD02059-(L)-BC2 Width: 55.75 in (1416 mm) Height: 58.50 in (1486 mm)		
	Length - (L)	Weight		Length - (L)	Weight	
	FT (mm)	LBS (kgs)		FT (mm)	LBS (kgs)	
12	8 (2438)	575 (260)	-	-	-	
24	16 (4877)	1150 (521)	8 (2438)	1025 (464)	-	
48	-	-	16 (4877)	2000 (906)	-	

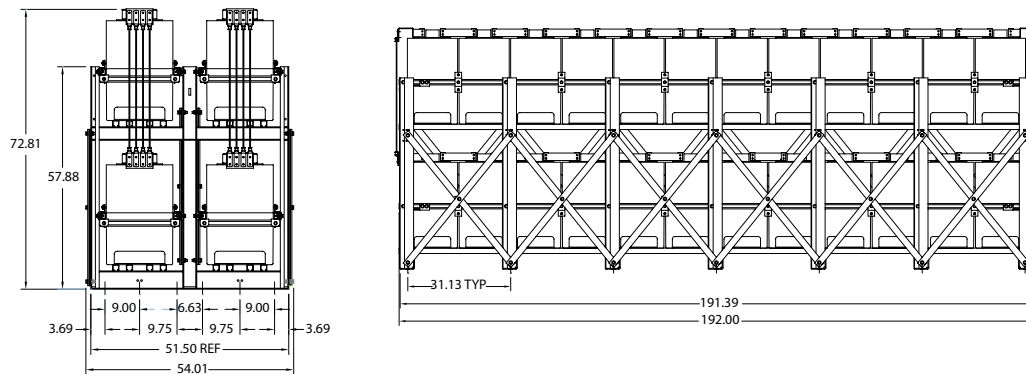
SEISMIC BELLCORE ZONE 4 (UBC 4+)						
Number of Cells	Two tier/One row Model RD02083-(L)-BC4 Width: 28.50 in (724 mm) Height: 58.50 in (1486 mm)			Two tier/Two row Model RD02059-(L)-BC4 Width: 55.75 in (1416 mm) Height: 58.50 in (1486 mm)		
	Length - (L)	Weight		Length - (L)	Weight	
	FT (mm)	LBS (kgs)		FT (mm)	LBS (kgs)	
12	8 (2438)	575 (260)	-	-	-	
24	16 (4877)	1165 (528)	8 (2438)	1010 (498)	-	
48	-	-	16 (4877)	2200 (997)	-	

Notes: 1. For rack lengths not shown contact C&D engineering. 2. Rack width does not include thickness of crossbracing. Increase width by 0.5 inches (12.7 mm) when this dimension is critical. 3. Standard cell installation on racks is with plates parallel to rack rails. 4. For other cell configurations and rack types, contact C&D Engineering.

## “NEBS CERTIFIED” MCT HP RACKS

		Rack dimensions (inches)			Maximum rack dim. inc. side/end rails and bolts Height to the top of the battery post
		Length	Width	Height	
2T2R for 24 cells: *Plates Parallel Plates Perpendicular	RD04258-16N4	4877 mm	657 mm	1476 mm	4877 mm x 699 mm x 1856 mm 192"L x 27.5"D x 73.06"H 218.1"L x 25.7"D x 73.06"H 5540 mm x 653 mm x 1856 mm
	RD04259-18N4	192.00"	25.88"	58.13"	
		216.00"	24.13"	58.13"	
2T2R for 24 cells: *Plates Parallel Plates Perpendicular	RD04262-08N4	2442 mm	1308 mm	1470 mm	2495 mm x 1374 mm x 1849 mm 98.21"L x 54.1"D x 72.81"H 111.20"L x 50.6"D x 72.81"H 2824 mm x 1285 mm x 1849 mm
	RD04263-09N4	96.14"	51.50"	57.88"	
		108.50"	48.00"	57.88"	
2T2R for 48 cells: *Plates Parallel Plates Perpendicular	RD04262-16N4	4861 mm	1308 mm	1470 mm	4877 mm x 1374 mm x 1849 mm 192"L x 54.1"D x 72.81"H 218.2"L x 50.6"D x 72.81"H 5537 mm x 1285 mm x 1849 mm
	RD04263-1 8N4	191.39"	51.50"	57.88"	
		216.5"	48.00"	57.88"	
		5499 mm	1219 mm	1470 mm	

\* Standard cell installation is with plates parallel to rack rails.



Shown: RD04262-16N4, 2T2R 16ft long MCT-4000HP rack with 48 cells  
For NEBS zone 2 racks, use suffix “-N2” in place of “-N4”. Dimensionally, they are the same.

## HIGH QUALITY BATTERY RACKS AND SPILL CONTAINMENT SYSTEMS ARE C&D TECHNOLOGIES SPECIALTIES

C&D TECHNOLOGIES offers quality racks to support its highly regarded MCT-HP product line. The racks offer a range of quality features while maintaining a competitive price structure.

- Epoxy Coated — 4 Rail Design
- Rugged “C-Channel” Frame Design
- Welded Steel Frames with an Acid Resistant, Electro-statically Applied Epoxy Powder Coat, ANSI 61 Gray
- Rails Accommodate Clip Nuts for Bolt-on Accessories
- Simplified Installation with Accessible Anchor Bolt Locations
- Racks are Shipped Unassembled
- Available for all Seismic Zones

C&D TECHNOLOGIES offers spill containment systems designed to meet and, in many cases, exceed all applicable Federal and State regulations by providing you with reliable, solid performance for hazardous material spills.

- Assembled with Flanges out or with Flanges in to Maximize Aisle Space
- PVC Coated Metal Construction
- Modular Design for Easy Installation and Maintenance
- Reusable in the Event of Future Expansion
- Complete System with Neutralizing and Absorbing Pillows



The logo for C&D Technologies, Inc. features the letters 'C' and 'D' in a bold, black, sans-serif font, with an ampersand between them. To the right of this symbol, the words 'TECHNOLOGIES, INC.' are written in a smaller, all-caps, sans-serif font.

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