

# MCT II

## STANDBY BATTERIES FOR LARGE POWER APPLICATIONS

3000 AND 4000 AMPERE-HOURS



### 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
- True 4000 Amp-hours capacity
- NEBS level 3 tested and 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
- CPR Number 134840 (MCTII 4000) and 135911 (MCTII 3000)

### SPECIFICATIONS

Plates	Height	Width	Thickness
Positive	18.75 in (476 mm)	12.80 in (325 mm)	.308 in (7.82 mm)
Negative	18.75 in (476 mm)	12.80 in (325 mm)	.190 in (2.83 mm)
Recommended Float Voltage	2.21-2.22 @ 1.215 specific gravity; 2.25-2.26 @ 1.250 specific gravity		
Electrolyte Height Above Plates	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 Choices (Transparent)	<ul style="list-style-type: none"> <li>• Thermoplastic (SAN)</li> <li>• High-impact, flame-retardant thermoplastic (PVC) Flammability ratings: UL94 V-0; LOI &gt; 33</li> <li>• High-impact, flame-retardant thermoplastic (polycarbonate)</li> </ul>		
Container Support Cradle*	High-impact, flame-retardant thermoplastic. Flammability rating: UL94 V-0; LOI > 28; ASTM D-635 self-extinguishing (*cradle provided as standard with SAN and PVC jars)		
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	Microporous rubber material		
Retainer	Fibrous glass mat		
Safety Vent System	Flame arrester type		
Terminals	Four 1.375 in (35 mm) 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 -3000	1	31	15.19 (386)	17.32 (440)	28.9 (735)	635 (289)	653 (296)	19 (72)	190 (87)	.000100
MCT II -4000	1	41	15.19 (386)	17.32 (440)	28.9 (735)	697 (317)	715 (325)	15 (57)	150 (69)	.000075

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

# CELL RATINGS

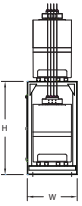
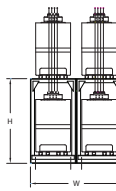
## Nominal Rates at 77°F (25°C) (includes connector voltage drop) • Amperes

Final Volts	Model	8Hr	5Hr	4Hr	3Hr	2Hr	1Hr	30 Min
1.90	MCTII-3000	274	369	419	485	576	698	771
	MCTII-4000	365	492	559	648	768	931	1028
1.88	MCTII-3000	297	403	458	532	636	796	909
	MCTII-4000	396	537	610	709	849	1061	1212
1.86	MCTII-3000	313	428	490	573	695	891	1040
	MCTII-4000	418	571	653	765	927	1188	1387
1.85	MCTII-3000	320	437	500	588	719	940	1113
	MCTII-4000	427	583	667	784	959	1253	1484
1.84	MCTII-3000	326	448	513	604	742	977	1169
	MCTII-4000	435	597	684	806	989	1303	1559
1.81	MCTII-3000	342	474	547	648	804	1084	1336
	MCTII-4000	456	632	729	865	1072	1445	1781
1.80	MCTII-3000	346	481	556	662	829	1139	1426
	MCTII-4000	461	641	741	883	1105	1519	1901
1.78	MCTII-3000	353	490	566	675	852	1203	1541
	MCTII-4000	471	653	755	901	1136	1604	2055
1.75	MCTII-3000	374	518	599	716	907	1312	1764
	MCTII-4000	500	691	799	955	1209	1749	2352

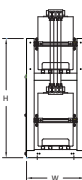
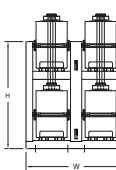
Notes: 1. All rates conform to IEEE-450-2002 2. For all rates less than 8 hours, 99% capacity or greater can be expected on a string basis upon delivery. For the 8 hour rate, 90% capacity or greater can be expected on a string basis upon delivery.

# 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)		

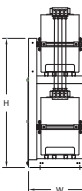
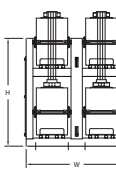
## SEISMIC BELLCORE ZONE 2 (UBC 3&4)

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)		

Notes:

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

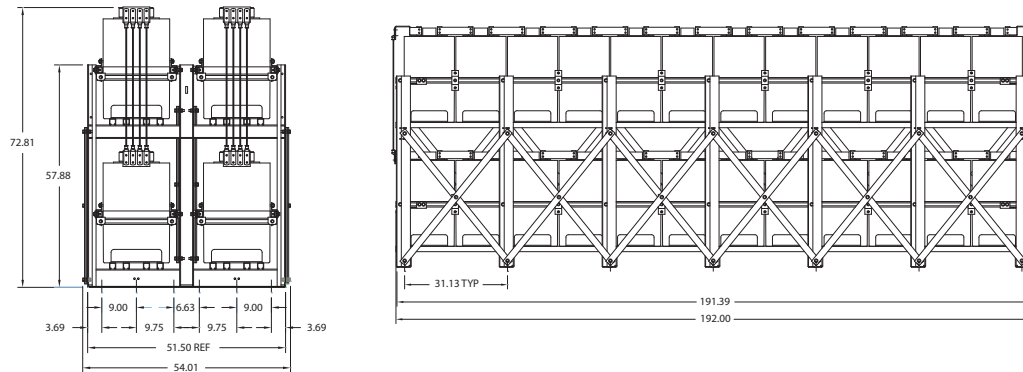
## SEISMIC BELLCORE ZONE 4 (UBC 4+)

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)	1100 (498)		
48	-	-	16 (4877)	2200 (997)		

## “NEBS CERTIFIED” MCT II RACKS

		Rack dimensions (inches)			Maximum rack dim. inc. side/end rails and bolts
		Length	Width	Height	Height to the top of the battery post
2T1R for 24 cells: *Plates Parallel Plates Perpendicular	RD04258-16N4	4877 mm 192.00"	657 mm 25.88"	1476 mm 58.13"	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	216.00"	24.13"	58.13"	
		5486 mm 613 mm	1476 mm		
2T2R for 24 cells: *Plates Parallel Plates Perpendicular	RD04262-08N4	2442 mm 96.14"	1308 mm 51.50"	1470 mm 57.88"	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	108.50"	48.00"	57.88"	
		2756 mm 1219 mm	1470 mm		
2T2R for 48 cells: *Plates Parallel Plates Perpendicular	RD04262-16N4	4861 mm 191.39"	1308 mm 51.50"	1470 mm 57.88"	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	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 II-4000 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 MCTII product line. The racks offer a range of quality features while maintaining a competitive price structure.

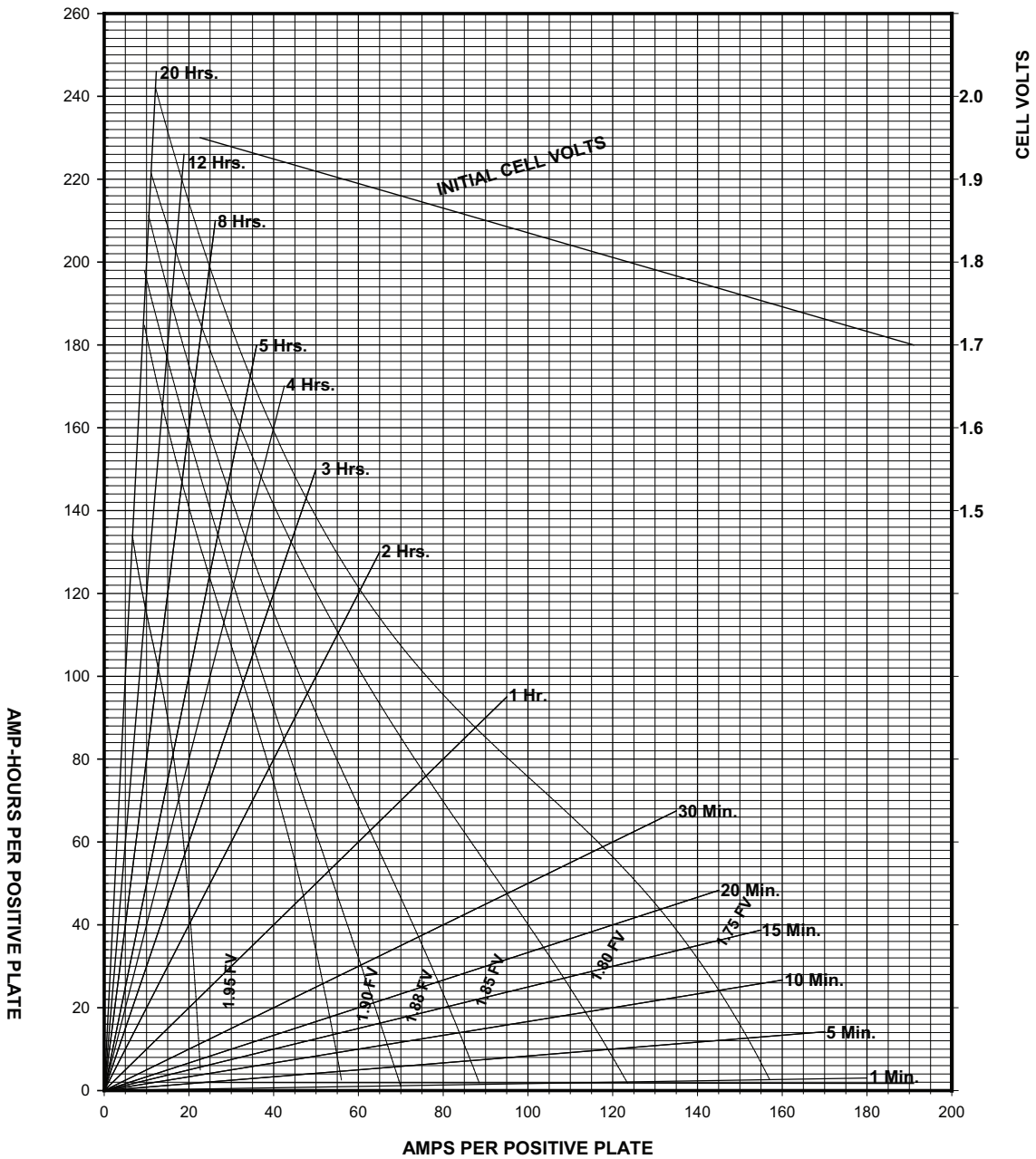
- Epoxy Coated — 4 Rail Design
- Rugged “C-Channel” Frame Design
- Welded Steel Frames with an Acid Resistant, Electro-statically Applied Epoxy Powder Coat, ANSI 61 Gray
- Rails Accommodate Clip Nuts for Bolt-on Accessories
- Simplified Installation with Accessible Anchor Bolt Locations
- Racks are Shipped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



CELL MODEL.....MCT 3000 OR 4000  
 NUMBER OF POSITIVE PLATES.....15 OR 20  
 ELECTROLYTE SPECIFIC GRAVITY.....1.215 + .005  
 TEMPERATURE.....77°F  
 TEST PROCEDURE.....IEEE 450-2002  
 DISCHARGE CHARACTERISTIC CURVE.....D-644



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