



DCU LEAD-CALCIUM

FOR TELECOMMUNICATIONS

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.



FEATURES & BENEFITS

APPLICATIONS

- Telephone Central Offices
- Mobile Telephone Switching Office
- Cable Head End Sites
- Fiber Optic Regenerator Sites
- Microwave Repeater Sites
- Telephone & Internet Network Nodes

- Capacities from 50 to 200 Ampere-hours
- Terminals accessible for measurement of individual cell voltages
- Transparent container allows visual inspection of plates
- Electrical capacity testing on every cell prior to shipping ensures performance of every battery upon delivery
- 20-year environmental and seismic qualification (calcium) for nuclear safety related application.
- Flame-arrester with fill funnel and dust cover
- Two- and three-cell units in most sizes

SPECIFICATIONS

Plates	Height	Width	Thickness
Positive	5.88 in (149 mm)	5.63 in (143 mm)	0.266 in (6.76 mm)
Negative	5.88 in (149 mm)	5.63 in (143 mm)	0.170 in (4.32 mm)
Outside Negative	5.88 in (149 mm)	5.63 in (143 mm)	0.110 in (2.79 mm)
Electrolyte height above plates	1.75 in (45 mm) except 11 plate, 1.63 in (41 mm)		
Sediment space	0.5 in (13 mm) except 11 plate, 0.56 in (14 mm)		
Electrolyte @ 77°F (25°C)	Sulfuric acid, 1.215 specific gravity nominal		
Float voltages	2.19 - 2.20 volts per cell (calcium); 2.15 - 2.18 volts per cell (antimony)		
Container	Thermoplastic, transparent		
Cover	High-impact thermoplastic		
Separator	Microporous with fibrous glass mat		
Safety Vent Systems	Flame-arrester type with dust cover		
Terminals			
DCU (5 through 11)	Two flag terminals, standard		
DCU (13 through 17)	Two, 0.75 in (19.1 mm) square posts		

RATINGS TABLE: AMPERES

	Models	8 hr Amp-Hr Ratings*	Nominal Rates @ 77°F (25°C) and 1.215 Specific Gravity (includes connector voltage drop)									
			1 min	15 min	30 min	1 hr	2 hr	3 hr	4 hr	6 hr	8 hr	12 hr
1.75	DCU-5	50	74.7	49.8	37.7	26.0	16.8	12.7	10.4	7.7	6.2	4.4
	DCU-7	75	112.1	74.7	56.6	39.1	25.1	19.1	15.6	11.6	9.3	6.7
	DCU-9	100	149.5	99.6	75.5	51.1	33.5	25.5	20.8	15.4	12.3	8.9
	DCU-11	120	190.9	127.1	96.0	66.2	40.8	30.1	24.5	18.3	14.8	10.8
	DCU-13	150	224.2	149.4	113.2	78.1	50.3	38.2	31.2	23.1	18.5	13.3
	DCU-17	200	299.0	199.2	151.0	104.2	67.0	50.9	41.6	30.8	24.7	17.8
1.81	DCU-5	46	58.9	41.6	32.7	23.5	15.3	11.7	9.6	7.2	5.7	4.1
	DCU-7	69	88.4	62.4	49.1	35.3	23.0	17.6	14.4	10.8	8.6	6.2
	DCU-9	92	117.8	83.1	65.4	47.0	30.7	23.5	19.3	14.3	11.5	8.3
	DCU-11	110	150.5	106.1	83.3	59.7	37.4	27.8	22.7	17.0	13.8	10.1
	DCU-13	138	176.7	124.7	98.2	70.5	46.0	35.2	28.9	21.5	17.2	12.4
	DCU-17	184	235.6	166.3	130.9	94.0	61.3	47.0	38.5	28.7	23.0	16.5
1.85	DCU-5	43	47.0	36.1	28.6	20.9	14.3	11.1	9.1	6.8	5.4	3.9
	DCU-7	65	70.5	54.1	42.9	31.3	21.4	16.6	13.6	10.2	8.1	5.8
	DCU-9	86	94.0	72.2	57.2	41.8	28.5	22.1	18.2	13.5	10.8	7.7
	DCU-11	102	119.3	92.4	72.5	51.9	34.8	26.6	21.8	16.0	12.7	9.1
	DCU-13	130	141.0	108.3	85.7	62.6	42.8	32.2	27.3	20.3	16.2	11.6
	DCU-17	173	187.9	144.4	114.3	83.5	57.1	44.2	36.4	27.1	21.6	15.5
1.88	DCU-5	39	38.3	30.1	24.5	18.4	12.8	10.0	8.2	6.2	4.9	3.5
	DCU-7	59	57.4	45.1	36.7	27.6	19.2	15.0	12.4	9.2	7.4	5.3
	DCU-9	79	76.6	60.1	49.0	36.8	25.6	20.0	16.5	12.3	9.9	7.1
	DCU-11	94	95.3	77.2	62.2	45.4	30.9	23.9	19.7	14.7	11.7	8.4
	DCU-13	118	114.9	90.2	73.5	55.2	38.4	30.0	24.7	18.5	14.8	10.6
	DCU-17	158	153.2	120.2	98.0	73.6	51.2	39.9	33.0	24.6	19.7	14.1

Additional ratings and application information is available on the Battery Solution Portal at solutionportal.cdtechno.com

* 8 hour Amp-Hr ratings based on final cell voltage of 1.75 vpc @ 77°F (25°C).

Type of Cell	Cells per unit	8 hr Amp-Hr Ratings*	Overall dimensions			Approx. wt. lbs (kgs)		Electrolyte per cell lbs (kgs)	CPR code number (DCU only)
Calcium			L in (mm)	W in (mm)	H in (mm)	Net Filled	Domestic Packed		
2DCU-5	2	50	5.28 (134)	7.38 (187)	10.31 (262)	24 (10.8)	28 (12.6)	2.8 (1.3)	269589
2DCU-5	3	50				33 (15.0)	28 (17.2)		269594
2DCU-7	2	75	9.45 (240)			38 (17.1)	42 (18.9)	5.8 (2.6)	269590
2DCU-7	3	75				53 (24.0)	58 (26.3)		269595
2DCU-9	2	100				42 (18.9)	46 (20.7)	5.3 (2.4)	269591
2DCU-9	3	100				60 (27.2)	65 (29.5)		269596
2DCU-11	2	120	11.13 (283)	7.19 (183)	50 (22.3)	54 (24.1)	5.8 (2.6)	269592	
2DCU-11	3	120			71 (32.2)	79 (35.8)		269597	
DCU-13	1	150	6.38 (157)	7.38 (187)	10.75 (273)	38 (17.2)	44 (20.0)	12.5 (5.7)	269585
DCU-17	1	200				42 (19.1)	48 (21.8)	10.5 (4.8)	269587

Note: 1. Electrolyte weighs approximately 10 lbs per gallon (1.215 kgs per liter).

2. Two-cell units are three-cell units with one dummy cell.

* 8 hour Amp-Hr ratings based on final cell voltage of 1.75 vpc @ 77°F (25°C).

For information on battery racks, please refer to brochure 12-560.

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