



# DCU LEAD-CALCIUM DU LEAD-ANTIMONY

FOR SWITCHGEAR AND CONTROL APPLICATIONS  
Capacities from 50 to 200 Ampere-hours



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.

## APPLICATIONS

- Electric Utility Distribution Substations
- Railway Signals
- Emergency Systems
- Manufacturing Facilities
  - Assembly Lines
  - Process Controls
- Petrochemical processing plants
- Pipelines

## FEATURES & BENEFITS

- 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 assures 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	2.17 - 2.22 volts per cell (calcium); 2.15 - 2.17 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/DU (5 through 11)	Two flag terminals, standard		
DCU/DU (13 through 17)	Two, 0.75 in (19.1 mm) square posts		

Additional ratings and application information is available in the Battery Selection Program at [www.cdstandbypower.com.net](http://www.cdstandbypower.com.net).

**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/DU-5	50	74.7	49.8	37.7	26.0	16.8	12.7	10.4	7.7	6.2	4.4
	DCU/DU-7	75	112.1	74.7	56.6	39.1	25.1	19.1	15.6	11.6	9.3	6.7
	DCU/DU-9	100	149.5	99.6	75.5	52.1	33.5	25.5	20.8	15.4	12.3	8.9
	DCU/DU-11	120	190.9	127.1	96.0	66.2	40.8	30.1	24.5	18.3	14.8	10.8
	DCU/DU-13	150	224.2	149.4	113.2	78.1	50.3	38.2	31.2	23.1	18.5	13.3
	DCU/DU-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/DU-5	46	58.9	41.6	32.7	23.5	15.3	11.7	9.6	7.2	5.7	4.1
	DCU/DU-7	69	88.4	62.4	49.1	35.3	23.0	17.6	14.4	10.8	8.6	6.2
	DCU/DU-9	92	117.8	83.1	65.4	47.0	30.7	23.5	19.3	14.3	11.5	8.3
	DCU/DU-11	110	150.5	106.1	83.3	59.7	37.4	27.8	22.7	17.0	13.8	10.1
	DCU/DU-13	138	176.7	124.7	98.2	70.5	46.0	35.2	28.9	21.5	17.2	12.4
	DCU/DU-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/DU-5	43	47.0	36.1	28.6	20.9	14.3	11.1	9.1	6.8	5.4	3.9
	DCU/DU-7	65	70.5	54.1	42.9	31.3	21.4	16.6	13.6	10.2	8.1	5.8
	DCU/DU-9	86	94.0	72.2	57.2	41.8	28.5	22.1	18.2	13.5	10.8	7.7
	DCU/DU-11	102	119.3	92.4	72.5	51.9	34.8	26.6	21.8	16.0	12.7	9.1
	DCU/DU-13	130	141.0	108.3	85.7	62.6	42.8	33.2	27.3	20.3	16.2	11.6
	DCU/DU-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/DU-5	39	38.3	30.1	24.5	18.4	12.8	10.0	8.2	6.2	4.9	3.5
	DCU/DU-7	59	57.4	45.1	36.7	27.6	19.2	15.0	12.4	9.2	7.4	5.3
	DCU/DU-9	79	76.6	60.1	49.0	36.8	25.6	20.0	16.5	12.3	9.9	7.1
	DCU/DU-11	94	95.3	77.2	62.2	45.4	30.9	23.9	19.7	14.7	11.7	8.4
	DCU/DU-13	118	114.9	90.2	73.5	55.2	38.4	30.0	24.7	18.5	14.8	10.6
	DCU/DU-17	158	153.2	120.2	98.0	73.6	51.2	39.9	33.0	24.6	19.7	14.1

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\* 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)	Pure sulfuric acid per cell lbs (kgs)	Internal resistance w/ connectors (ohms/cell)	CPR code number (DCU only)		
Calcium	Antimony			L in (mm)	W in (mm)	H in (mm)	Net Filled	Dom. Packed						
2DCU-5	2DU-5	2	50	5.28 (134)	7.38 (187)	10.31 (262)	24 (10.8)	28 (12.6)	2.8 (1.3)	0.8 (.36)	0.0032	269589		
3DCU-5	3DU-5	3	50				33 (15.0)	28 (17.2)				269594		
2DCU-7	2DU-7	2	75	9.45 (240)			10.31 (262)	38 (17.1)	42 (18.9)	5.8 (2.6)	1.7 (.77)	0.00213	269590	
3DCU-7	3DU-7	3	75					53 (24.0)	58 (26.3)				269595	
2DCU-9	2DU-9	2	100	11.13 (283)				10.31 (262)	42 (18.9)	46 (20.7)	5.3 (2.4)	1.5 (.68)	0.0016	269591
3DCU-9	3DU-9	3	100						60 (27.2)	65 (29.5)				269596
2DCU-11	2DU-11	2	120	6.38 (157)	10.75 (273)	49.5 (22.3)			53.5 (24.1)	5.8 (2.6)	1.7 (.77)	0.00129	269592	
3DCU-11	3DU-11	3	120			71 (32.2)			79 (35.8)				269597	
DCU-13	DU-13	1	150	6.38 (157)		10.75 (273)	38 (17.2)		44 (20.0)	12.5 (5.7)	3.7 (1.6)	0.0011	269585	
DCU-17	DU-17	1	200				42 (19.1)		48 (21.8)				10.5 (4.8)	3.1 (1.4)

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.