

CD TECHNOLOGIES

Power Solutions

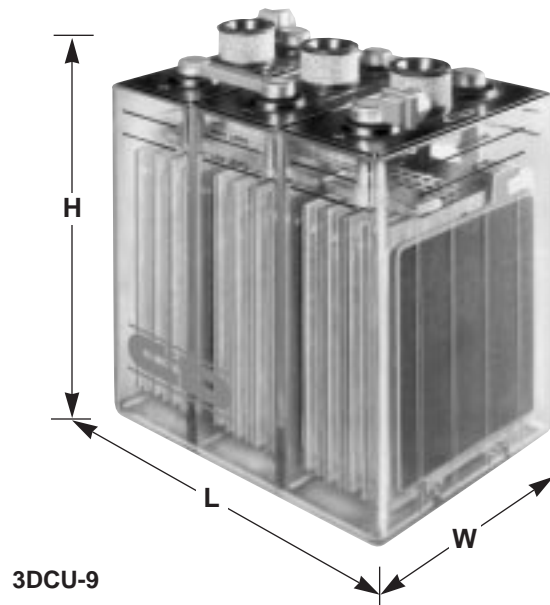
DCU LEAD-CALCIUM DU LEAD-ANTIMONY



For telecommunications, switchgear, and control applications
Capacities from 25 to 200 Ampere-hours

FEATURES AND BENEFITS

- Terminals accessible for measurement of individual cell voltages
- Transparent container allows visual inspection of plates
- 20-year environmental and seismic qualification (calcium)
- Flame-arrester with fill funnel
- 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 @ 77F (25C)	Sulfuric acid, 1.215 specific gravity nominal		
Float voltages	2.19–2.21 volts per cell (calcium); 2.15–2.17 volts per cell (antimony)		
Container	Thermoplastic, transparent, SAN only		
Cover	High-impact thermoplastic (tongue-and-groove seal on single-cell units)		
Separator	Microporous with fibrous glass mat		
Safety vent system	Flame-arrester type with dust cover		
Terminals	Two flag terminals, standard		
DCU/DU (3 through 11)	Two, 0.75-in (19.1 mm) square posts		
DCU/DU (13 through 17)	Two, 0.75-in (19.1 mm) square posts		

Final volts	Models	Nominal rates at 77F (25C) (includes connector voltage drop)							
		Ampere-hours				Amperes			
		8 Hr	5 Hr	3 Hr	1.5 Hr	1 Hr	30 Min	15 Min	1 Min
1.84	DCU/DU-3	22	20	17	13	11	15	19	22
	DCU/DU-5	44	39	33	26	22	30	37	44
	DCU/DU-7	67	59	50	39	33	44	56	66
	DCU/DU-9	89	78	67	52	44	59	74	88
	DCU/DU-11	108	94	83	63	54	71	88	117
	DCU/DU-13	133	117	100	77	65	89	111	132
	DCU/DU-15	155	137	117	90	76	104	130	154
	DCU/DU-17	177	156	133	103	87	118	148	176
1.81	DCU/DU-3	23	21	18	14	12	17	21	29
	DCU/DU-5	23	41	35	28	23	33	41	57
	DCU/DU-7	70	62	53	41	35	50	62	86
	DCU/DU-9	93	82	70	55	47	66	83	114
	DCU/DU-11	110	98	84	70	59	80	101	140
	DCU/DU-13	139	123	105	83	70	99	124	172
	DCU/DU-15	162	144	123	97	82	116	145	200
	DCU/DU-17	186	164	140	110	94	132	166	229
1.78	DCU/DU-3	24	21	18	14	12	18	23	33
	DCU/DU-5	48	42	37	29	25	35	46	65
	DCU/DU-7	72	63	55	43	37	53	68	98
	DCU/DU-9	96	84	73	58	50	70	91	130
	DCU/DU-11	115	100	91	74	62	88	115	165
	DCU/DU-13	144	126	110	86	74	106	137	195
	DCU/DU-15	168	147	128	101	87	123	160	228
	DCU/DU-17	192	168	146	115	99	141	182	260
1.75	DCU/DU-3	25	22	19	15	13	19	25	38
	DCU/DU-5	50	44	38	31	26	38	50	75
	DCU/DU-7	75	66	57	46	39	57	75	111
	DCU/DU-9	100	88	76	61	52	76	100	148
	DCU/DU-11	120	105	90	75	65	96	126	184
	DCU/DU-13	150	132	114	92	78	114	149	220
	DCU/DU-15	175	154	133	107	91	133	174	253
	DCU/DU-17	200	176	152	122	104	152	199	288

Note: Data based on discharge from a minimum of 72 hours on float at 77F (25C) in accordance with IEEE-450.

SPECIFICATIONS

Type of cell		Cells per unit	Overall dimensions			Approx. wt. lbs (kgs)		Elec-trolyte per cell lbs (kgs)	Pure sul-furic 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-3	2DU-3	2	5.28 (134)	7.38 (187)	10.31 (262)	20 (9.0)	24 (10.8)	3 (1.4)	0.9 (.40)	.00640	269588	
3DCU-3	3DU-3	3				27 (12.2)	32 (14.5)				269593	
2DCU-5	2DU-5	2	5.28 (134)			42 (18.9)	46 (20.7)	5.3 (2.4)	1.5 (.68)	.00160	269591	
3DCU-5	3DU-5	3										33 (15.0)
2DCU-7	2DU-7	2	9.47 (241)			7.19 (183)	49.5 (22.3)	53.5 (24.1)	5.8 (2.6)	1.7 (.77)	.00129	269592
3DCU-7	3DU-7	3										
2DCU-9	2DU-9	2	9.47 (241)			10.75 (273)	60 (27.2)	65 (29.5)	12.5 (5.7)	3.7 (1.6)	.00110	269585
3DCU-9	3DU-9	3										
2DCU-11	2DU-11	2	11.13 (283)	7.38 (187)	38 (17.2)	44 (20.0)	11.5 (5.2)	3.4 (1.5)	.00090	269586		
3DCU-11	3DU-11	3									49.5 (22.3)	53.5 (24.1)
DCU-13	DU-13	1	6.38 (157)	7.38 (187)	40 (18.1)	46 (20.9)	10.5 (4.8)	3.1 (1.4)	.00080	269587		
DCU-15	DU-15	1										
DCU-17	DU-17	1										

Note: 1. Electrolyte weighs approximately 10 lbs per gallon (1.210 kgs per liter).
2. Two-cell units are three-cell units with one dummy cell.

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

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