

# 4LCY LEAD-CALCIUM 4LY LEAD-ANTIMONY

## FOR TELECOMMUNICATIONS APPLICATIONS CAPACITIES FROM 290 TO 660 AMPERE-HOURS



C&D Technologies' Standby Power Division 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 AND BENEFITS

- Four-cell design offers reduced length for optimum space utilization (shorter racks)
- Fewer bolted connectors per battery string reduce installation and maintenance costs
- Flame-retardant covers enhance battery plant safety
- Suspended positive plate permits free growth without pressure on jar and cover
- Snap-on, intercell-connector insulating covers
- Terminals accessible for measurement of individual cell voltages
- Vacuum-assisted, bottom-pour, positive-grid casting assures plate quality and long life
- Soft rubber post seal minimizes stress on post

### SPECIFICATIONS

Plates	Height	Width	Thickness
<b>Positive</b>	15 in (381 mm)	12 in (305 mm)	0.250 in (6.4 mm)
<b>Negative</b>	15 in (381 mm)	12 in (305 mm)	0.180 in (4.6 mm)
<b>Outside negative</b>	15 in (381 mm)	12 in (305 mm)	0.130 in (3.3 mm)
<b>Electrolyte height above plates</b>	2.88 in (73 mm)		
<b>Sediment space</b>	0.63 in (16 mm)		
<b>Electrolyte @77F (25C)</b>	Sulfuric Acid, 1.215 specific gravity nominal		
<b>Float voltages</b>	2.19 - 2.21 volts per cell (calcium) 2.15 - 2.17 volts per cell (antimony)		
<b>Container †</b>	Thermoplastic, transparent, SAN (standard), polycarbonate (optional)		
<b>Cover</b>	High-impact, flame-retardant thermoplastic with tongue-and-groove seal. Flammability ratings: UL94 V-0 ASTM D-635 self-extinguishing. LOI>32		
<b>Separator</b>	Microporous with fibrous glass mat		
<b>Safety vent system</b>	Flame arrester type with dust cover		
<b>Terminals</b>	Two 0.50 in x 1.38 in (12.7 mm X 35 mm) cast lead terminals (290-420) Two 1 in (25 mm) square posts per unit (544-660)		
<b>Withdrawal tubes</b>	One per cell		
<b>Optional Container</b>	Transparent, flame-retardant polycarbonate. Flammability ratings: UL 940-HB ASTM D-635 self-extinguishing		
<b>Special Voltages</b>	Modules with dummy cells are available		

**Nominal Rates at 77F (25C) in 1.215 Nominal SG. (Includes Connector Drop) Amperes**

Final volts	Models	24 Hr	12 Hr	8 Hr	5 Hr	3 Hr	2 Hr	1 Hr
<b>1.88</b>	4LCY/LY-290	11	21	29	42	60	76	108
	4LCY/LY-420	17	31	43	61	86	111	157
	4LCY/LY-544	23	41	56	78	111	144	203
	4LCY/LY-660	27	48	67	95	135	174	246
<b>1.86</b>	4LCY/LY-290	12	22	31	44	63	80	115
	4LCY/LY-420	17	32	44	64	90	116	167
	4LCY/LY-544	24	42	58	82	117	151	216
	4LCY/LY-660	28	50	70	100	142	183	262
<b>1.84</b>	4LCY/LY-290	12	23	32	46	65	84	122
	4LCY/LY-420	18	33	46	66	94	121	176
	4LCY/LY-544	25	44	60	85	121	158	228
	4LCY/LY-660	29	52	73	104	148	191	277
<b>1.75</b>	4LCY/LY-290	15	26	36	51	73	95	145
	4LCY/LY-420	21	38	52	74	105	137	210
	4LCY/LY-544	29	51	69	96	135	178	272
	4LCY/LY-660	34	60	83	116	165	215	330

\*Rates shown represent average values and are subject to IEEE-485 (6.2.4). Additional ratings available on the C&D Technologies Standby Power Division Battery Selection Application Program at [www.cdpower.com.net](http://www.cdpower.com.net).

Type of Cell (CPR code number)		Cells per unit	Plates per cell	Normal rates at 77F (25C) (includes connector voltage drop) Ampere-hours (1.75 F.V.)				Overall dimensions			Approx. wt. lbs (kgs)		Electrolyte Per Cell lbs (kgs)	Pure Sulfuric Acid Per cell lbs (kgs)
Calcium	Antimony			L in (mm)	W in (mm)	H in (mm)	Net Filled	Dom. Packed						
4LCY-290 (164422)	4LY-290	4	5	290	253	218	145	10.08 (256)	14.12 (356)	22.75 (578)	253 (114.8)	268 (121.6)	20 (9.1)	6 (2.7)
4LCY-420 (162232)	4LY-420	4	7	420	366	315	210	10.08 (256)			310 (140.6)	325 (147.4)	18 (8.2)	5.4 (2.4)
4LCY-544	4LY-544	4	9	544	474	408	272	15.00 (381)			395 (179.2)	415 (188.2)	25 (11.3)	7.5 (3.4)
4LCY-660 (164423)	4LY-660	4	11	660	575	495	330	15.00 (381)			450 (204.1)	470 (213.2)	23 (10.4)	6.9 (3.1)

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

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

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