

12-329

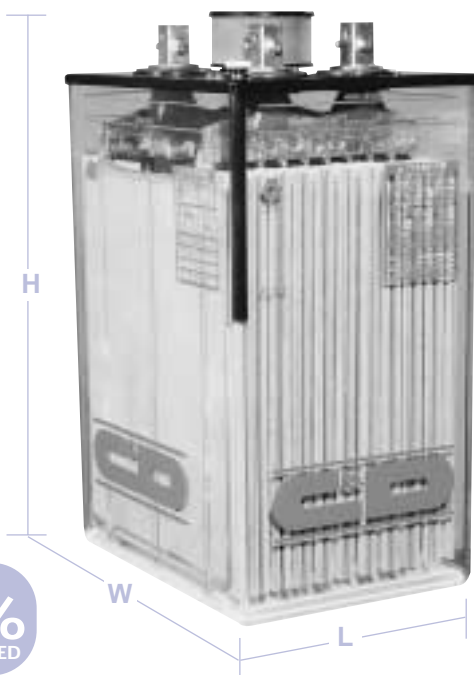
## LCT LEAD-CALCIUM LT LEAD-ANTIMONY

For telecommunications applications  
Capacities from 840 to 2320 Ampere-hours

C&D Technologies' Powercom 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

- Flame-retardant covers enhance battery plant safety with self-extinguishing properties
- Transparent container allows visual inspection of plates to observe signs of abnormality
- Low-evaporation, flame-arrester vent to extend watering intervals and prevent external sparks from reacting with the hydrogen inside the cell
- Vacuum-assisted, bottom-pour, positive-grid casting assures voidless grid quality resulting in long service life
- Soft rubber post seal minimizes stress on post reducing maintenance requirements
- Proprietary expander enables stable and uniform float operation for proven 20-year service life
- Cross-drilled posts for positioning plates perpendicular or parallel to the rack providing flexible installation options
- Waterbath charging results in consistently formed plates for reliable performance out of the box (no cycling required in the field)
- Computer controlled heli-arc post welded post seal results in consistent and reliable seal for less maintenance and longer product life
- Narrow 17" (43.18cm) depth racks available – NEBS qualified (for information on racks, see brochure 12-560)



LCT-1680

EVERY CELL  
**100%**  
CAPACITY TESTED

### SPECIFICATIONS

Plates	Height	Width	Thickness
Positive	15 in (381 mm)	12 in (305 mm)	.312 in (7.9 mm)
Negative	15 in (381 mm)	12 in (305 mm)	.210 in (5.3 mm)
Outside negative	15 in (381 mm)	12 in (305 mm)	.120 in (3.1 mm)
Electrolyte height above plates	2.875 in (73 mm)		
Sediment space	0.63 in (16 mm)		
Electrolyte at 77F (25C)	Sulfuric acid, 1.215 specific gravity nominal		
Float voltages	2.17–2.22 volts per cell (calcium); 2.15–2.18 volts per cell (antimony)		
Container*	Thermoplastic, transparent, polycarbonate and SAN available		
Cover	High-impact, flame-retardant thermoplastic (PVC), with tongue-and-groove seal Flammability ratings: UL 94-V0; LOI > 33; ASTM D-635 self-extinguishing		
Separator	Microporous with fibrous glass mat		
Safety vent system	Flame-arrester type		
Terminals	Four, 1-in (25 mm) square posts per cell. Two, 1-in (25 mm) square posts per cell for cell types, 2LCT-840/2LT-840		
Withdrawal tubes	Two per cell		
*Optional container (for 840–1680 only)	High-impact, flame-retardant thermoplastic (PVC) Flammability ratings: UL 94-V0; LOI > 32		

Final volts	Battery models	Nominal rates at 77F (25C) (includes connector voltage drop) Amperes per cell										
		24 Hr	10 Hr	8 Hr	6 Hr	5 Hr	4 Hr	3 Hr	2 Hr	1.5 Hr	1 Hr	.5 Hr
		1.90	2LCT/LT- 840 LCT/LT- 840 LCT/LT-1008 LCT/LT-1176 LCT/LT-1344 LCT/LT-1680 LCT/LT-1848 LCT/LT-2016 LCT/LT-2175 LCT/LT-2320	34 34 40 47 54 67 74 81 80 85	67 67 81 94 108 134 148 161 162 172	79 79 95 110 126 158 173 189 190 203	96 96 115 134 153 192 211 230 233 249	108 108 129 151 172 215 237 258 263 281	123 123 147 172 196 246 270 295 303 324	143 143 172 201 229 287 315 344 358 381	172 172 206 240 275 343 377 412 433 462	189 189 206 265 303 379 417 455 480 512
1.88	2LCT/LT- 840 LCT/LT- 840 LCT/LT-1008 LCT/LT-1176 LCT/LT-1344 LCT/LT-1680 LCT/LT-1848 LCT/LT-2016 LCT/LT-2175 LCT/LT-2320	36 36 43 50 57 72 79 86 85 90	72 72 87 101 116 144 159 173 176 188	85 85 102 119 136 170 187 204 209 223	103 103 124 145 165 207 227 248 259 276	116 116 139 163 186 232 256 279 295 315	133 133 160 186 213 266 342 374 410 438	156 156 187 218 249 311 342 374 410 438	188 188 226 263 301 376 414 451 507 541	210 210 251 293 335 419 461 503 569 607	236 236 283 330 377 471 518 565 641 683	267 267 320 373 426 533 586 640 718 766
1.86	2LCT/LT- 840 LCT/LT- 840 LCT/LT-1008 LCT/LT-1176 LCT/LT-1344 LCT/LT-1680 LCT/LT-1848 LCT/LT-2016 LCT/LT-2175 LCT/LT-2320	38 38 45 53 60 76 83 91 90 96	76 76 92 107 122 153 168 183 191 203	90 90 108 126 144 180 198 216 228 243	110 110 132 154 175 219 241 263 285 304	124 124 148 173 198 247 272 297 327 349	142 142 170 199 227 284 312 341 383 409	167 167 201 234 268 335 368 402 463 494	205 205 246 287 328 409 450 491 581 619	231 231 277 323 369 461 507 553 658 702	263 263 315 368 420 525 578 630 748 798	302 302 362 423 483 604 664 724 847 903
1.84	2LCT/LT- 840 LCT/LT- 840 LCT/LT-1008 LCT/LT-1176 LCT/LT-1344 LCT/LT-1680 LCT/LT-1848 LCT/LT-2016 LCT/LT-2175 LCT/LT-2320	39 39 47 55 63 79 86 93 99 99	80 80 96 112 127 159 175 191 199 212	94 94 113 132 150 188 207 225 238 254	115 115 138 161 184 230 253 276 299 319	130 130 156 182 208 260 286 311 342 365	150 150 180 209 239 299 329 359 402 429	177 177 213 248 284 355 439 483 527 519	220 220 263 307 351 439 499 549 599 616 657	250 250 299 349 399 499 549 599 706 753	288 288 346 403 461 576 633 691 816 870	336 336 403 470 537 671 738 806 945 1,008
1.80	2LCT/LT- 840 LCT/LT- 840 LCT/LT-1008 LCT/LT-1176 LCT/LT-1344 LCT/LT-1680 LCT/LT-1848 LCT/LT-2016 LCT/LT-2175 LCT/LT-2320	41 41 50 58 66 83 91 99 99 105	84 84 101 118 135 169 185 202 213 227	100 100 120 140 159 199 219 239 256 274	123 123 147 172 196 245 270 294 322 344	139 139 167 194 222 278 306 333 370 395	161 161 193 225 258 322 354 386 436 465	193 193 231 270 308 386 424 463 532 567	243 243 292 341 389 487 535 584 682 728	282 282 338 394 450 563 619 676 794 847	333 333 400 466 533 666 733 799 943 1,006	399 399 479 559 639 799 878 958 1,137 1,213
1.75	2LCT/LT- 840 LCT/LT- 840 LCT/LT-1008 LCT/LT-1176 LCT/LT-1344 LCT/LT-1680 LCT/LT-1848 LCT/LT-2016 LCT/LT-2175 LCT/LT-2320	43 43 52 60 69 86 95 103 104 111	88 88 106 124 141 177 194 212 224 239	105 105 126 147 168 210 231 252 272 290	129 129 155 181 206 258 284 310 339 361	147 147 176 205 235 293 323 352 389 415	171 171 205 239 289 341 375 409 458 489	206 206 247 288 329 394 423 494 559 596	264 264 317 370 423 528 581 634 722 770	311 311 373 436 498 622 685 747 849 906	380 380 456 532 608 761 837 913 1,036 1,105	476 476 571 666 761 952 1,047 1,142 1,327 1,416

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

Type of battery (CPR code number)		Cells per unit	Plates per cell	Nominal rates at 77F (25C) (includes connector voltage drop)*				Overall dimensions			Approx. wt. lbs (kgs)		Elec- trolyte per cell lbs (kgs)	Pure sulfuric acid per cell lbs (kgs)
Calcium	Antimony			Ampere-hours				L in (mm)	W in (mm)	H in (mm)	Net filled	Dom. packed		
				8 Hr	5 Hr	3 Hr	1 Hr							
2LCT-840 (164424)	2LT-840	2	11	840	733	617	380	12.10 (307)	14.12 (359)	22.63 (575)	322 (146)	343 (156)	45 (21)	13.5 (6.1)
LCT-840 (569631)	LT-840	1	11	840	733	617	380	7.62 (194)			183 (83)	213 (97)	65 (30)	19.5 (8.8)
LCT-1008	LT-1008	1	13	1,008	880	741	456	7.62 (194)			200 (91)	230 (104)	63 (29)	18.9 (8.5)
LCT-1176 (161538)	LT-1176	1	15	1,176	1,026	864	532	7.62 (194)			217 (98)	247 (112)	60 (27)	18.0 (8.1)
LCT-1344	LT-1344	1	17	1,344	1,173	988	608	8.88 (226)			249 (113)	281 (127)	71 (32)	21.3 (9.6)
LCT-1680 (469228)	LT-1680 (569633)	1	21	1,680	1,466	1,235	761	10.62 (270)			304 (138)	343 (156)	84 (38)	25.2 (11.4)
LCT-1848 (063784)	LT-1848	1	23	1,848	1,613	1,358	837	13.14 (334)			345 (156)	385 (175)	104 (47)	31.2 (14.1)
LCT-2016 (569639)	LT-2016	1	25	2,016	1,759	1,482	913	13.14 (334)			362 (164)	402 (182)	101 (46)	30.3 (13.7)
LCT-2175 (469645)	LT-2175	1	31	2,176	1,945	1,676	1,036	13.14 (334)			384 (174)	407 (185)	94 (43)	28.2 (12.7)
LCT-2320	LT-2320	1	33	2,320	2,075	1,788	1,105	13.14 (334)			401 (182)	424 (192)	92 (42)	27.6 (12.5)

Note: Electrolyte weighs approximately 10 lbs per gallon (1.210 kgs per liter).

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



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