12-1006

LCUN LEAD-CALCIUM

FOR SWITCHGEAR AND CONTROL APPLICATIONS

Capacities from 1304 to 2318 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 service life.



APPLICATIONS

- · Electric Power Generation Facilities
- · Nuclear Power Plants
- · Emergency Systems
- · Manufacturing Facilities
 - Assembly Lines
 - Process Controls
- · Petrochemical processing plants
- · Pipelines

FEATURES & BENEFITS

- Electrical testing to 100% capacity of every battery string prior to shipping assures performance of every battery string upon delivery.
- Proprietary vacuum-assisted, bottom-pour, positive-grid casting assures void-free grid quality resulting in long service life.
- Waterbath charging results in consistently formed plates for reliable performance out of the box (no cycling required in the field)-100% capacity at the time of shipment.
- Suspended positive plates permit free growth without pressure on jar and cover.
- · 20 year environmental and seismic qualification.
- · Cross drilled terminal posts for flexible installation and ease of maintenance.
- · Rubber separators for lower float current.
- · Non-copper inserted posts reduce short circuit current.

SPECIFICATIONS

| Plate Dimensions | |
|---------------------------------|---|
| Height & Width | 15.00 in (381 mm) H x 12.00 in (305 mm) W |
| Positive Thickness | 0.312 in (7.9 mm) |
| Negative Thickness | 0.210 in (5.3 mm) |
| Outside Negative Thickness | 0.130 in (3.3 mm) |
| Electrolyte height above plates | 2.88 in (73 mm) |
| Sediment space | 0.63 in (16 mm) |
| Electrolyte @ 77°F (25°C) | Sulfuric acid, 1.215 specific gravity nominal |
| Electrolyte withdrawal tubes | Two per cell optional |
| Recommended Float voltages | 2.21 - 2.22 volts per cell (Average string voltage) |
| Container | Thermoplastic, transparent (SAN) – Standard (Optional transparent, flame retardant Polycarbonate) |
| Cover | High-impact, flame-retardant thermoplastic, with tongue-and-groove seal. Flammability ratings: UL 94-V0; ASTM D-635 self-extinguishing. |
| Separator | Microporous with fiberglass retaining mat |
| Vent Systems | Flame-arrester with dust cover |
| Terminals | Four, 1-in square posts with cross-drilled holes |

CELL DIMENSIONS & WEIGHTS

| | | Unit dimensions in. (mm) | | Unit wt. | Electrolyte per | |
|-------------|-------------|--------------------------|-------------|-------------|-------------------------|----------------|
| LCUN-Models | L | w | н | Net filled | Dom. packed | cell lbs (kgs) |
| LCUN-19 | 0.00 (226) | 14.12 (250) | 22.62 (EZE) | 254 (115.2) | 274 (124.3) | 70 (31.8) |
| LCUN-21 | 8.88 (226) | 14.12 (359) | 22.62 (575) | 270 (122.5) | 290 (131.5) | 67 (30.4) |
| LCUN-23 | | | | 310 (140.6) | 310 (140.6) 330 (149.7) | |
| LCUN-25 | 10.62 (270) | 14.12 (359) | 22.62 (575) | 325 (147.4) | 345 (156.5) | 82 (37.2) |
| LCUN-27 | | 14.12 (359) | 22.62 (575) | 350 (158.8) | 373 (169.2) | 98 (44.5) |
| LCUN-29 | 13.14 (334) | | | 367 (166.5) | 390 (176.9) | 96 (43.5) |
| LCUN-31 | | | | 384 (174.2) | 407 (184.6) | 94 (42.6) |
| LCUN-33 | | | | 416 (188.7) | 440 (199.6) | 92 (41.7) |



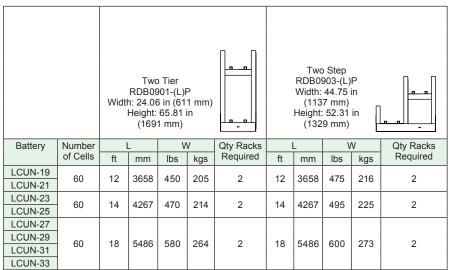


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RATINGS TABLE: AMPERES

| | | Ampere* | Rates @77° F and 1.215 specific gravity (includes connector voltage drop) | | | | | | | | | |
|---------|---------|---------|---|--------|--------|------|------|------|------|------|------|-------|
| | | hours | Amperes | | | | | | | | | |
| FV/Cell | Models | 8hr | 1 min | 15 min | 30 min | 1 hr | 2 hr | 3 hr | 4 hr | 5 hr | 8 hr | 12 hr |
| 1.75 | LCUN-19 | 1304 | 1101 | 974 | 830 | 622 | 432 | 333 | 274 | 233 | 163 | 117 |
| | LCUN-21 | 1449 | 1224 | 1082 | 922 | 691 | 480 | 370 | 304 | 259 | 181 | 130 |
| | LCUN-23 | 1594 | 1346 | 1191 | 1014 | 760 | 527 | 407 | 334 | 285 | 199 | 143 |
| | LCUN-25 | 1739 | 1468 | 1299 | 1107 | 829 | 575 | 444 | 365 | 311 | 217 | 156 |
| | LCUN-27 | 1884 | 1591 | 1407 | 1199 | 898 | 623 | 481 | 395 | 337 | 236 | 169 |
| | LCUN-29 | 2029 | 1713 | 1515 | 1291 | 967 | 671 | 518 | 426 | 363 | 254 | 182 |
| | LCUN-31 | 2174 | 1835 | 1624 | 1383 | 1036 | 719 | 555 | 456 | 389 | 272 | 195 |
| | LCUN-33 | 2318 | 1958 | 1732 | 1475 | 1105 | 767 | 593 | 487 | 414 | 290 | 208 |
| 1.78 | LCUN-19 | 1271 | 959 | 859 | 759 | 598 | 416 | 323 | 266 | 227 | 159 | 114 |
| | LCUN-21 | 1412 | 1065 | 955 | 843 | 664 | 462 | 359 | 295 | 252 | 177 | 127 |
| | LCUN-23 | 1554 | 1172 | 1050 | 928 | 731 | 508 | 394 | 325 | 277 | 194 | 140 |
| | LCUN-25 | 1694 | 1278 | 1146 | 1012 | 797 | 554 | 430 | 354 | 302 | 212 | 153 |
| | LCUN-27 | 1836 | 1385 | 1241 | 1096 | 864 | 601 | 466 | 384 | 327 | 230 | 165 |
| | LCUN-29 | 1977 | 1491 | 1337 | 1181 | 930 | 647 | 502 | 413 | 353 | 247 | 178 |
| | LCUN-31 | 2118 | 1598 | 1432 | 1265 | 997 | 693 | 538 | 443 | 378 | 265 | 191 |
| | LCUN-33 | 2260 | 1704 | 1528 | 1349 | 1063 | 739 | 574 | 472 | 403 | 283 | 203 |
| 1.81 | LCUN-19 | 1230 | 815 | 750 | 681 | 559 | 398 | 310 | 256 | 218 | 154 | 111 |
| | LCUN-21 | 1367 | 906 | 833 | 757 | 621 | 442 | 344 | 284 | 243 | 171 | 124 |
| | LCUN-23 | 1504 | 996 | 917 | 833 | 683 | 486 | 379 | 312 | 267 | 188 | 136 |
| | LCUN-25 | 1641 | 1087 | 1000 | 908 | 745 | 530 | 413 | 341 | 291 | 205 | 148 |
| | LCUN-27 | 1778 | 1177 | 1083 | 984 | 807 | 574 | 447 | 369 | 316 | 222 | 161 |
| | LCUN-29 | 1914 | 1268 | 1166 | 1060 | 869 | 619 | 482 | 398 | 340 | 239 | 173 |
| | LCUN-31 | 2050 | 1358 | 1250 | 1135 | 931 | 663 | 516 | 426 | 364 | 256 | 185 |
| | LCUN-33 | 2187 | 1449 | 1333 | 1211 | 993 | 707 | 551 | 454 | 388 | 273 | 198 |

^{*} Data based on discharge directly from a 72 hour float condition per IEEE-450 procedures
Additional ratings and application information is available in the Battery Selection Application Program at www.cdstandbypower.net.



Notes:

- Rack Lengths for other batteries can be calculated by the formula: Number of units per tier or step x (L+0.5 inches)- 0.5 inches = total rack length, where 'L' is the length of battery jar or cell in inches.
- See Section 12-560 for information about seismic-rated racks.
- Height is the height to the top of the battery installed on this rack. See Section 12-560 and rack drawings for further information.
- Additional rack application information is available in the Battery Selection Application Program at www.cdstandbypower.net.
- Racks qualified to IEEE-693 and IBC are available. Contact your C&D representive for details.
- 6. 3-tier racks available.



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