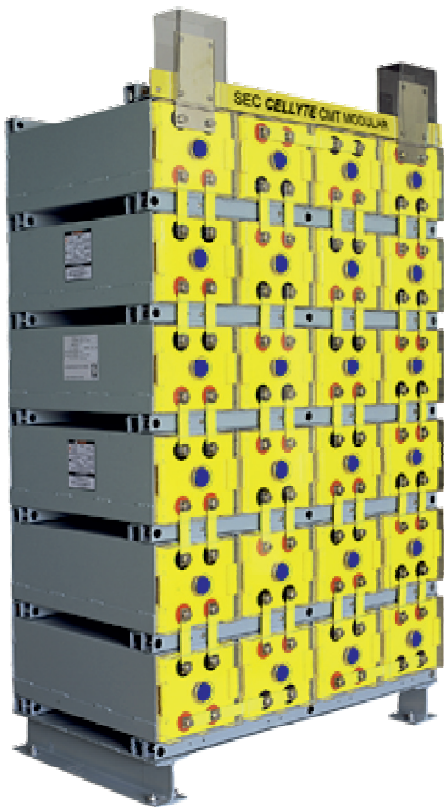


CELLYTE 2CMT Range

STATIONARY MODULAR RACK BATTERIES USING AGM TECHNOLOGY

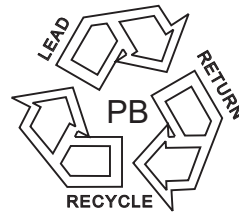
20 YEARS DESIGN LIFE IN FLOAT SERVICE @ 20C



**HORIZONTAL LAYOUT MINIMISES
BATTERY FOOT PRINT**

**Sealed Valve Regulated
Maintenance Free
Lead Acid Batteries**

**CAPACITY 100 Ah. TO 3200 Ah.
C/10 RATE TO 1.80 Vpc @ 20C
or C/8 to 1.75 Vpc @ 25C**



**CADMIUM FREE
FULLY RECYCLABLE
LEAD ACID BATTERIES**

CONFORMS TO THE EUROPEAN
E.C.1992 DIRECTIVE ON
DANGEROUS SUBSTANCES

INNOVATIVE FEATURES

- * Valve regulated with Catalyst
- * Propriety virgin Lead 1.6% Tin Alloy
- * Fully tank formed plates
- * Uniform cell cooling
- * Increased Capacity with Catalyst
- * Never requires addition of water
- * Spill proof and leak proof
- * Very low gassing on float charge
- * Explosion proof / Increased safety
- * Operates at low internal pressure
- * For use in vertical or horizontal positions

APPLICATIONS

- * Telecommunications
- * UPS
- * Emergency Lighting
- * Standby Power
- * Switchgear
- * Control System
- * Cellular Radio
- * Navigation Aids
- * Photovoltaic/Solar
- * Wind & Alternative Energy



CELLYTE - Battery Sizing 2CMT Range

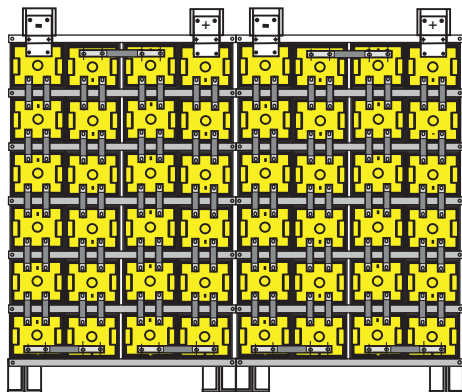
CELLYTE 2CMT Modular/Tubular - Ampere Hour Data to 1.80 vpc @ 20 C.

| SEC Battery TYPE | END Volts / Cell | DATA AMPS @ 20 C | | | | | | END Volts / Cell | DISCHARGE DATA AMPS HOURS TO 1.80 vpc @ 20 C | | | | | | | | | | | |
|------------------|------------------|---------------------------|------|------|------|------|------|------------------|--|------|------|------|------|------|------|------|------|------|------|--|
| | | DISCHARGE TIME IN MINUTES | | | | | | | DISCHARGE TIME IN HOURS | | | | | | | | | | | |
| | | 5 | 10 | 15 | 20 | 30 | 45 | | 1 | 1.5 | 2 | 3 | 4 | 5 | 6 | 8 | 10 | 12 | 24 | |
| 2CMT100 | 1.75 | 171 | 145 | 128 | 114 | 92.3 | 73.5 | 1.80 | 57.0 | 63.0 | 68.0 | 76.0 | 82.0 | 86.0 | 89.0 | 98.0 | 100 | 102 | 109 | |
| 2CMT150 | 1.75 | 257 | 218 | 192 | 171 | 139 | 110 | 1.80 | 85.5 | 94.5 | 102 | 114 | 123 | 129 | 134 | 147 | 150 | 153 | 164 | |
| 2CMT200 | 1.75 | 342 | 291 | 257 | 228 | 185 | 147 | 1.80 | 114 | 126 | 136 | 152 | 164 | 172 | 178 | 196 | 200 | 204 | 218 | |
| 2CMT250 | 1.75 | 428 | 363 | 321 | 285 | 231 | 184 | 1.80 | 143 | 158 | 170 | 190 | 205 | 215 | 223 | 245 | 250 | 255 | 273 | |
| 2CMT300 | 1.75 | 513 | 436 | 385 | 342 | 277 | 221 | 1.80 | 171 | 189 | 204 | 228 | 246 | 258 | 267 | 294 | 300 | 306 | 327 | |
| 2CMT350* | 1.75 | 599 | 509 | 449 | 399 | 323 | 257 | 1.80 | 200 | 221 | 238 | 266 | 287 | 301 | 312 | 343 | 350 | 357 | 382 | |
| 2CMT400* | 1.75 | 684 | 581 | 513 | 456 | 369 | 294 | 1.80 | 228 | 252 | 272 | 304 | 328 | 344 | 356 | 392 | 400 | 408 | 436 | |
| 2CMT420* | 1.75 | 718 | 610 | 539 | 479 | 388 | 309 | 1.80 | 239 | 265 | 286 | 319 | 344 | 361 | 374 | 412 | 420 | 428 | 458 | |
| 2CMT450* | 1.75 | 770 | 654 | 577 | 513 | 416 | 331 | 1.80 | 257 | 284 | 306 | 342 | 369 | 387 | 401 | 441 | 450 | 459 | 491 | |
| 2CMT500* | 1.75 | 855 | 727 | 641 | 570 | 462 | 368 | 1.80 | 285 | 315 | 340 | 380 | 410 | 430 | 445 | 490 | 500 | 510 | 545 | |
| 2CMT550* | 1.75 | 941 | 799 | 705 | 627 | 508 | 404 | 1.80 | 314 | 347 | 374 | 418 | 451 | 473 | 490 | 539 | 550 | 561 | 600 | |
| 2CMT600* | 1.75 | 1026 | 872 | 770 | 684 | 554 | 441 | 1.80 | 342 | 378 | 408 | 456 | 492 | 516 | 534 | 588 | 600 | 612 | 654 | |
| 2CMT650* | 1.75 | 1112 | 945 | 834 | 741 | 600 | 478 | 1.80 | 371 | 410 | 442 | 494 | 533 | 559 | 579 | 637 | 650 | 663 | 709 | |
| 2CMT700* | 1.75 | 1197 | 1017 | 898 | 798 | 646 | 515 | 1.80 | 399 | 441 | 476 | 532 | 574 | 602 | 623 | 686 | 700 | 714 | 763 | |
| 2CMT750 | 1.75 | 1283 | 1090 | 962 | 855 | 693 | 551 | 1.80 | 428 | 473 | 510 | 570 | 615 | 645 | 668 | 735 | 750 | 765 | 818 | |
| 2CMT800 | 1.75 | 1368 | 1163 | 1026 | 912 | 739 | 588 | 1.80 | 456 | 504 | 544 | 608 | 656 | 688 | 712 | 784 | 800 | 816 | 872 | |
| 2CMT850 | 1.75 | 1454 | 1235 | 1090 | 969 | 785 | 625 | 1.80 | 485 | 536 | 578 | 646 | 697 | 731 | 757 | 833 | 850 | 867 | 927 | |
| 2CMT900 | 1.75 | 1539 | 1308 | 1154 | 1026 | 831 | 662 | 1.80 | 513 | 567 | 612 | 684 | 738 | 774 | 801 | 882 | 900 | 918 | 981 | |
| 2CMT1000 | 1.75 | 1710 | 1454 | 1283 | 1140 | 923 | 735 | 1.80 | 570 | 630 | 680 | 760 | 820 | 860 | 890 | 980 | 1000 | 1020 | 1090 | |
| 2CMT1100 | 1.75 | 1881 | 1599 | 1411 | 1254 | 1016 | 809 | 1.80 | 627 | 693 | 748 | 836 | 902 | 946 | 979 | 1078 | 1100 | 1122 | 1199 | |
| 2CMT1200 | 1.75 | 2052 | 1744 | 1539 | 1368 | 1108 | 882 | 1.80 | 684 | 756 | 816 | 912 | 984 | 1032 | 1068 | 1176 | 1200 | 1224 | 1308 | |
| 2CMT1300 | 1.75 | 2223 | 1890 | 1667 | 1482 | 1200 | 956 | 1.80 | 741 | 819 | 884 | 988 | 1066 | 1118 | 1157 | 1274 | 1300 | 1326 | 1417 | |
| 2CMT1400 | 1.75 | 2394 | 2035 | 1796 | 1596 | 1293 | 1029 | 1.80 | 798 | 882 | 952 | 1064 | 1148 | 1204 | 1246 | 1372 | 1400 | 1428 | 1526 | |
| 2CMT1500 | 1.75 | 2565 | 2180 | 1924 | 1710 | 1385 | 1103 | 1.80 | 855 | 945 | 1020 | 1140 | 1230 | 1290 | 1335 | 1470 | 1500 | 1530 | 1635 | |
| 2CMT1600 | 1.75 | 2736 | 2326 | 2052 | 1824 | 1477 | 1176 | 1.80 | 912 | 1008 | 1088 | 1216 | 1312 | 1376 | 1424 | 1568 | 1600 | 1632 | 1744 | |
| 2CMT1700 | 1.75 | 2907 | 2471 | 2180 | 1938 | 1570 | 1250 | 1.80 | 969 | 1071 | 1156 | 1292 | 1394 | 1462 | 1513 | 1666 | 1700 | 1734 | 1853 | |
| 2CMT1800 | 1.75 | 3078 | 2616 | 2309 | 2052 | 1662 | 1324 | 1.80 | 1026 | 1134 | 1224 | 1368 | 1476 | 1548 | 1602 | 1764 | 1800 | 1836 | 1962 | |
| 2CMT2000 | 1.75 | 3420 | 2907 | 2565 | 2280 | 1847 | 1471 | 1.80 | 1140 | 1260 | 1360 | 1520 | 1640 | 1720 | 1780 | 1960 | 2000 | 2040 | 2180 | |
| 2CMT2200 | 1.75 | 3762 | 3198 | 2822 | 2508 | 2031 | 1618 | 1.80 | 1254 | 1386 | 1496 | 1672 | 1804 | 1892 | 1958 | 2156 | 2200 | 2244 | 2398 | |
| 2CMT2400 | 1.75 | 4104 | 3488 | 3078 | 2736 | 2216 | 1765 | 1.80 | 1368 | 1512 | 1632 | 1824 | 1968 | 2064 | 2136 | 2352 | 2400 | 2448 | 2616 | |
| 2CMT2600 | 1.75 | 4446 | 3779 | 3335 | 2964 | 2401 | 1912 | 1.80 | 1482 | 1638 | 1768 | 1976 | 2132 | 2236 | 2314 | 2548 | 2600 | 2652 | 2834 | |
| 2CMT2800 | 1.75 | 4788 | 4070 | 3591 | 3192 | 2586 | 2059 | 1.80 | 1596 | 1764 | 1904 | 2128 | 2296 | 2408 | 2492 | 2744 | 2800 | 2856 | 3052 | |
| 2CMT3000 | 1.75 | 5130 | 4361 | 3848 | 3420 | 2770 | 2206 | 1.80 | 1710 | 1890 | 2040 | 2280 | 2460 | 2580 | 2670 | 2940 | 3000 | 3060 | 3270 | |
| 2CMT3200 | 1.75 | 5472 | 4651 | 4104 | 3648 | 2955 | 2353 | 1.80 | 1824 | 2016 | 2176 | 2432 | 2624 | 2752 | 2848 | 3136 | 3200 | 3366 | 3597 | |

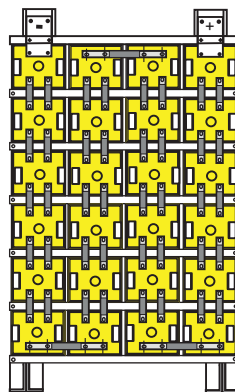
*Cell types 350 to 700 also available as high discharge rate cells with 4 terminal posts
Actual discharge data may be +/- 5% of data shown - Largest single cells is 1600 Ah

Typical Modular Zone 4 Racks for 48 Volt Systems

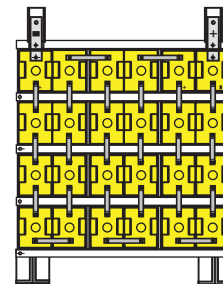
Note:- Cells up to 1600Ah. are single cells. Cells over 1600Ah. are made up of 2 x 850Ah. to 2 x1600Ah. connected in parallel or series to give 1700Ah. to 3200Ah.



Front view
24 x 2CMT2000 to 3200
(2 x 24 x 1000 to 1600)
2 x 4 post cells



Front view
24 x 2CMT750 to 1600
4 post cells



Front view
24 x 2CMT100 to 700
2 post cells



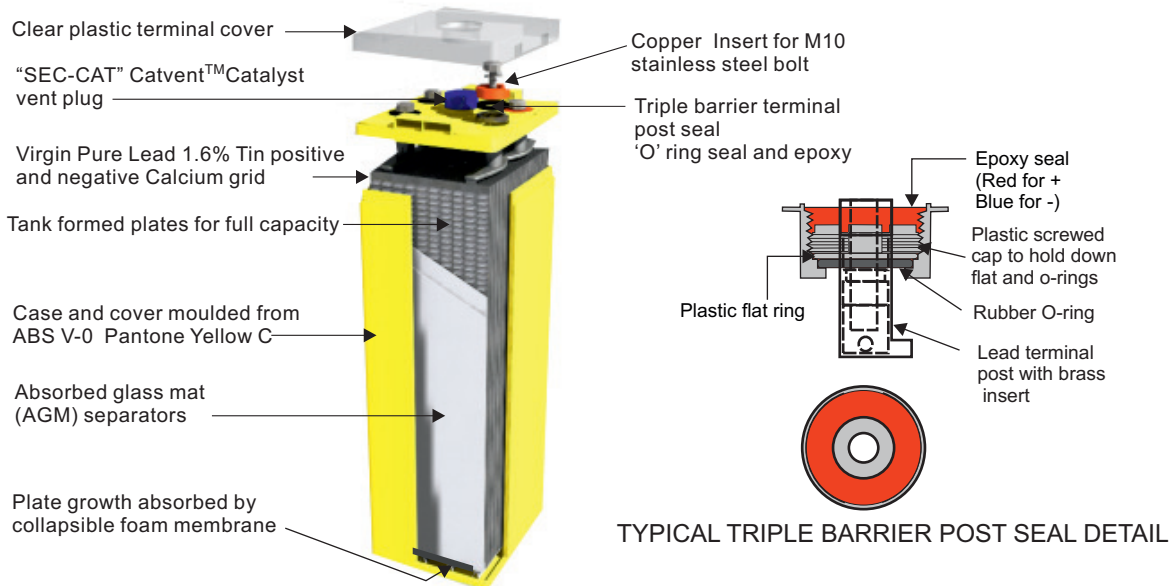
CELLYTE - Battery Sizing 2CMT Range

CELLYTE 2CMT - Modular/Tubular Dimensions, Weights & Data

| SEC Battery TYPE | Capacity C/10 1.80 vpc | Single Cell Sizes | CELL DIMENSIONS & WEIGHT | | | | | 24 CELL BATTERY DIMENSIONS mm | | | | Internal Resist. m Ohms | 1 Minute Rate to 1.67 vpc | Short Circuit Current | No. of Terminal Post |
|------------------|------------------------|-------------------|--------------------------|----------|--------------|--------------|---------|-------------------------------|-----------------|------------------|------------------|-------------------------|---------------------------|-----------------------|----------------------|
| | | | Length mm | Width mm | Height mm H1 | Height mm H2 | CELL KG | Length Mod./Tub. | Depth Mod.&Tub. | Height Mod.&Tub. | Weight Mod./Tub. | | | | |
| 2CMT100 | 100 | 1 x 100 | 102 | 187 | 278 | 300 | 7.0 | 672 / 720 | 310 | 1010 | 202/188 | 0.70 | 216 | 1080 | 2 |
| 2CMT150 | 150 | 1 x 150 | 102 | 187 | 278 | 300 | 9.0 | 672 / 720 | 310 | 1010 | 288/270 | 0.60 | 300 | 1500 | 2 |
| 2CMT200 | 200 | 1 x 200 | 102 | 187 | 278 | 300 | 13.6 | 672 / 720 | 310 | 1010 | 430/400 | 0.50 | 340 | 1600 | 2 |
| 2CMT250 | 250 | 1 x 250 | 102 | 187 | 374 | 396 | 15.2 | 672 / 720 | 410 | 1010 | 490/460 | 0.45 | 380 | 1900 | 2 |
| 2CMT300 | 300 | 1 x 300 | 102 | 187 | 374 | 396 | 18.8 | 672 / 720 | 410 | 1010 | 605/565 | 0.40 | 480 | 2400 | 2 |
| 2CMT350* | 350 | 1 x 350 | 151 | 187 | 374 | 396 | 25.0 | 966 / 1010 | 410 | 1010 | 720/670 | 0.39 | 580 | 2900 | 2 |
| 2CMT400* | 400 | 1 x 400 | 151 | 187 | 374 | 396 | 28.0 | 966 / 1010 | 410 | 1010 | 810/750 | 0.36 | 640 | 3200 | 2 |
| 2CMT420* | 420 | 1 x 420 | 151 | 187 | 374 | 396 | 28.0 | 966 / 1010 | 410 | 1010 | 810/750 | 0.35 | 660 | 3300 | 2 |
| 2CMT450* | 450 | 1 x 450 | 151 | 187 | 374 | 396 | 32.0 | 966 / 1010 | 410 | 1010 | 920/860 | 0.33 | 720 | 3600 | 2 |
| 2CMT500* | 500 | 1 x 500 | 151 | 187 | 543 | 565 | 28.5 | 966 / 1010 | 580 | 1010 | 980/910 | 0.30 | 800 | 4000 | 2 |
| 2CMT550* | 550 | 1 x 550 | 151 | 187 | 543 | 565 | 36.0 | 966 / 1010 | 580 | 1010 | 1040/970 | 0.29 | 900 | 4500 | 2 |
| 2CMT600* | 600 | 1 x 600 | 151 | 187 | 543 | 565 | 38.0 | 966 / 1010 | 580 | 1010 | 1100/1000 | 0.28 | 970 | 4800 | 2 |
| 2CMT650* | 650 | 1 x 650 | 151 | 187 | 543 | 565 | 41.0 | 966 / 1010 | 580 | 1010 | 1180/1080 | 0.24 | 1030 | 5100 | 2 |
| 2CMT700* | 700 | 1 x 700 | 151 | 187 | 543 | 565 | 45.0 | 966 / 1010 | 580 | 1010 | 1300/1190 | 0.23 | 1120 | 5600 | 2 |
| 2CMT750 | 750 | 1 x 750 | 223 | 187 | 543 | 565 | 45.0 | 966 / 1010 | 580 | 1010 | 1390/1270 | 0.22 | 1200 | 6000 | 4 |
| 2CMT800 | 800 | 1 x 800 | 223 | 187 | 543 | 565 | 58 | 958 / 980 | 580 | 1500 | 1670/1530 | 0.20 | 1280 | 6400 | 4 |
| 2CMT850 | 850 | 1 x 850 | 223 | 187 | 543 | 565 | 61 | 958 / 980 | 580 | 1500 | 1750/1600 | 0.190 | 1380 | 6900 | 4 |
| 2CMT900 | 900 | 1 x 900 | 223 | 187 | 543 | 565 | 65 | 958 / 980 | 580 | 1500 | 1870/1710 | 0.180 | 1460 | 7300 | 4 |
| 2CMT1000 | 1000 | 1 x 1000 | 223 | 187 | 543 | 565 | 68 | 958 / 980 | 580 | 1500 | 1950/1800 | 0.160 | 1580 | 7900 | 4 |
| 2CMT1100 | 1100 | 1 x 1100 | 223 | 187 | 543 | 565 | 74 | 958 / 980 | 580 | 1500 | 2130/1950 | 0.140 | 1720 | 8600 | 4 |
| 2CMT1200 | 1200 | 1 x 1200 | 223 | 187 | 643 | 565 | 78 | 958 / 980 | 680 | 1500 | 2250/2060 | 0.130 | 1800 | 9000 | 4 |
| 2CMT1300 | 1300 | 1 x 1300 | 223 | 187 | 643 | 665 | 82 | 958 / 980 | 680 | 1500 | 2360/2160 | 0.125 | 1900 | 9500 | 4 |
| 2CMT1400 | 1400 | 1 x 1400 | 223 | 187 | 643 | 665 | 88 | 958 / 980 | 680 | 1500 | 2530/2320 | 0.120 | 2100 | 10500 | 4 |
| 2CMT1500 | 1500 | 1 x 1500 | 235 | 212 | 653 | 675 | 100 | 1010 / 1030 | 690 | 1670 | 2770/2530 | 0.110 | 2380 | 12000 | 4 |
| 2CMT1600 | 1600 | 1 x 1600 | 235 | 212 | 653 | 675 | 110 | 1010 / 1030 | 690 | 1670 | 3340/3060 | 0.100 | 2560 | 12800 | 4 |
| 2CMT1700 | 1700 | 2 x 850 | 2 x 223 | 187 | 543 | 565 | 2 x 61 | 1916 / 1940 | 580 | 1500 | 3510/3220 | 0.095 | 2760 | 13800 | 8 |
| 2CMT1800 | 1800 | 2 x 900 | 2 x 223 | 187 | 543 | 565 | 2 x 65 | 1916 / 1940 | 580 | 1500 | 3750/3430 | 0.090 | 2920 | 14600 | 8 |
| 2CMT2000 | 2000 | 2 x 1000 | 2 x 223 | 187 | 543 | 565 | 2 x 68 | 1916 / 1940 | 580 | 1500 | 3920/3590 | 0.080 | 3160 | 15800 | 8 |
| 2CMT2200 | 2200 | 2 x 1100 | 2 x 223 | 187 | 543 | 565 | 2 x 74 | 1916 / 1940 | 580 | 1500 | 4260/3900 | 0.070 | 3440 | 17200 | 8 |
| 2CMT2400 | 2400 | 2 x 1200 | 2 x 223 | 187 | 643 | 665 | 2 x 78 | 1916 / 1940 | 680 | 1500 | 4490/4120 | 0.065 | 3600 | 18000 | 8 |
| 2CMT2600 | 2600 | 2 x 1300 | 2 x 223 | 187 | 643 | 665 | 2 x 82 | 1916 / 1940 | 680 | 1500 | 4720/4330 | 0.080 | 3800 | 19000 | 8 |
| 2CMT2800 | 2800 | 2 x 1400 | 2 x 223 | 187 | 643 | 665 | 2 x 88 | 1916 / 1940 | 680 | 1500 | 5070/4640 | 0.070 | 4200 | 21000 | 8 |
| 2CMT3000 | 3000 | 2 x 1500 | 2 x 235 | 212 | 653 | 675 | 2 x 100 | 2220 / 2250 | 690 | 1670 | 5540/5060 | 0.067 | 4760 | 24000 | 8 |
| 2CMT3200 | 3200 | 2 x 1600 | 2 x 235 | 212 | 653 | 675 | 2 x 110 | 2220 / 2250 | 690 | 1670 | 6680/6120 | 0.063 | 5120 | 25600 | 8 |

Actual discharge data may be +/- 5% of data shown - Largest single cell is 1600 ah

CELLYTE 2CMT Cell - Cutaway View



Heavy duty ABS cell jar can be free standing or in a zone 4 modular rack

CELLYTE - Battery Sizing 2CMT Range

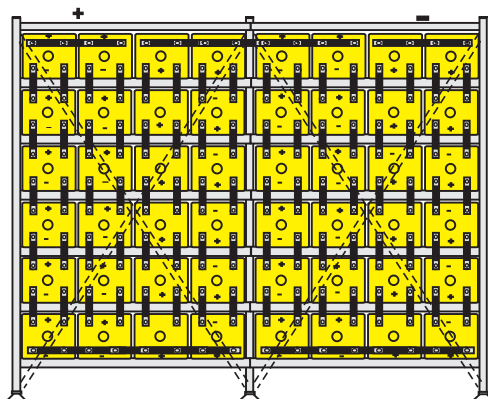
CELLYTE 2CMT Modular/Tubular - Data Amps to 1.80 vpc @ 20 C.

| SEC Battery TYPE | END Volts / Cell | DATA AMPS @ 20 C | | | | | | END Volts / Cell | DISCHARGE DATA AMPS TO 1.80 vpc @ 20 C | | | | | | | | | | | |
|------------------|------------------|---------------------------|------|------|------|------|------|------------------|--|------|------|------|------|------|------|------|------|------|------|--|
| | | DISCHARGE TIME IN MINUTES | | | | | | | DISCHARGE TIME IN HOURS | | | | | | | | | | | |
| | | 5 | 10 | 15 | 20 | 30 | 45 | | 1 | 1.5 | 2 | 3 | 4 | 5 | 6 | 8 | 10 | 12 | 24 | |
| 2CMT100 | 1.75 | 171 | 145 | 128 | 114 | 92.3 | 73.5 | 1.80 | 57.0 | 42.0 | 34.0 | 25.3 | 20.5 | 17.2 | 14.8 | 12.3 | 10.0 | 8.50 | 4.54 | |
| 2CMT150 | 1.75 | 257 | 218 | 192 | 171 | 139 | 110 | 1.80 | 85.5 | 63.0 | 51.0 | 38.0 | 30.8 | 25.8 | 22.3 | 18.4 | 15.0 | 12.8 | 6.81 | |
| 2CMT200 | 1.75 | 342 | 291 | 257 | 228 | 185 | 147 | 1.80 | 114 | 84.0 | 68.0 | 50.7 | 41.0 | 34.4 | 29.7 | 24.5 | 20.0 | 17.0 | 9.08 | |
| 2CMT250 | 1.75 | 428 | 363 | 321 | 285 | 231 | 184 | 1.80 | 143 | 105 | 85.0 | 63.3 | 51.3 | 43.0 | 37.1 | 30.6 | 25.0 | 21.3 | 11.4 | |
| 2CMT300 | 1.75 | 513 | 436 | 385 | 342 | 277 | 221 | 1.80 | 171 | 126 | 102 | 76.0 | 61.5 | 51.6 | 44.5 | 36.8 | 30.0 | 25.5 | 13.6 | |
| 2CMT350* | 1.75 | 599 | 509 | 449 | 399 | 323 | 257 | 1.80 | 200 | 147 | 119 | 88.7 | 71.8 | 60.2 | 51.9 | 42.9 | 35.0 | 29.8 | 15.9 | |
| 2CMT400* | 1.75 | 684 | 581 | 513 | 456 | 369 | 294 | 1.80 | 228 | 168 | 136 | 101 | 82.0 | 68.8 | 59.3 | 49.0 | 40.0 | 34.0 | 18.2 | |
| 2CMT420* | 1.75 | 718 | 610 | 539 | 479 | 388 | 309 | 1.80 | 239 | 176 | 143 | 106 | 86.1 | 72.2 | 62.3 | 51.5 | 42.0 | 35.7 | 19.1 | |
| 2CMT450* | 1.75 | 770 | 654 | 577 | 513 | 416 | 331 | 1.80 | 257 | 189 | 153 | 114 | 92.3 | 77.4 | 66.8 | 55.1 | 45.0 | 38.3 | 20.4 | |
| 2CMT500* | 1.75 | 855 | 727 | 641 | 570 | 462 | 368 | 1.80 | 285 | 210 | 170 | 127 | 103 | 86.0 | 74.2 | 61.3 | 50.0 | 42.5 | 22.7 | |
| 2CMT550* | 1.75 | 941 | 799 | 705 | 627 | 508 | 404 | 1.80 | 314 | 231 | 187 | 139 | 113 | 94.6 | 81.6 | 67.4 | 55.0 | 46.8 | 25.0 | |
| 2CMT600* | 1.75 | 1026 | 872 | 770 | 684 | 554 | 441 | 1.80 | 342 | 252 | 204 | 152 | 123 | 103 | 89.0 | 73.5 | 60.0 | 51.0 | 27.3 | |
| 2CMT650* | 1.75 | 1112 | 945 | 834 | 741 | 600 | 478 | 1.80 | 371 | 273 | 221 | 165 | 133 | 112 | 96.4 | 79.6 | 65.0 | 55.3 | 29.5 | |
| 2CMT700* | 1.75 | 1197 | 1017 | 898 | 798 | 646 | 515 | 1.80 | 399 | 294 | 238 | 177 | 144 | 120 | 104 | 85.8 | 70.0 | 59.5 | 31.8 | |
| 2CMT750 | 1.75 | 1283 | 1090 | 962 | 855 | 693 | 551 | 1.80 | 428 | 315 | 255 | 190 | 154 | 129 | 111 | 91.9 | 75.0 | 63.8 | 34.1 | |
| 2CMT800 | 1.75 | 1368 | 1163 | 1026 | 912 | 739 | 588 | 1.80 | 456 | 336 | 272 | 203 | 164 | 138 | 119 | 98.0 | 80.0 | 68.0 | 36.3 | |
| 2CMT850 | 1.75 | 1454 | 1235 | 1090 | 969 | 785 | 625 | 1.80 | 485 | 357 | 289 | 215 | 174 | 146 | 126 | 104 | 85.0 | 72.3 | 38.6 | |
| 2CMT900 | 1.75 | 1539 | 1308 | 1154 | 1026 | 831 | 662 | 1.80 | 513 | 378 | 306 | 228 | 185 | 155 | 134 | 110 | 90.0 | 76.5 | 40.9 | |
| 2CMT1000 | 1.75 | 1710 | 1454 | 1283 | 1140 | 923 | 735 | 1.80 | 570 | 420 | 340 | 253 | 205 | 172 | 148 | 123 | 100 | 85.0 | 45.4 | |
| 2CMT1100 | 1.75 | 1881 | 1599 | 1411 | 1254 | 1016 | 809 | 1.80 | 627 | 462 | 374 | 279 | 226 | 189 | 163 | 135 | 110 | 93.5 | 50.0 | |
| 2CMT1200 | 1.75 | 2052 | 1744 | 1539 | 1368 | 1108 | 882 | 1.80 | 684 | 504 | 408 | 304 | 246 | 206 | 178 | 147 | 120 | 102 | 54.5 | |
| 2CMT1300 | 1.75 | 2223 | 1890 | 1667 | 1482 | 1200 | 956 | 1.80 | 741 | 546 | 442 | 329 | 267 | 224 | 193 | 159 | 130 | 111 | 59.0 | |
| 2CMT1400 | 1.75 | 2394 | 2035 | 1796 | 1596 | 1293 | 1029 | 1.80 | 798 | 588 | 476 | 355 | 287 | 241 | 208 | 172 | 140 | 119 | 63.6 | |
| 2CMT1500 | 1.75 | 2565 | 2180 | 1924 | 1710 | 1385 | 1103 | 1.80 | 855 | 630 | 510 | 380 | 308 | 258 | 223 | 184 | 150 | 128 | 68.1 | |
| 2CMT1600 | 1.75 | 2736 | 2326 | 2052 | 1824 | 1477 | 1176 | 1.80 | 912 | 672 | 544 | 405 | 328 | 275 | 237 | 196 | 160 | 136 | 72.7 | |
| 2CMT1700 | 1.75 | 2907 | 2471 | 2180 | 1938 | 1570 | 1250 | 1.80 | 969 | 714 | 578 | 431 | 349 | 292 | 252 | 208 | 170 | 145 | 77.2 | |
| 2CMT1800 | 1.75 | 3078 | 2616 | 2309 | 2052 | 1662 | 1324 | 1.80 | 1026 | 756 | 612 | 456 | 369 | 310 | 267 | 221 | 180 | 153 | 81.8 | |
| 2CMT2000 | 1.75 | 3420 | 2907 | 2565 | 2280 | 1847 | 1471 | 1.80 | 1140 | 840 | 680 | 507 | 410 | 344 | 297 | 245 | 200 | 170 | 90.8 | |
| 2CMT2200 | 1.75 | 3762 | 3198 | 2822 | 2508 | 2031 | 1618 | 1.80 | 1254 | 924 | 748 | 557 | 451 | 378 | 326 | 270 | 220 | 187 | 100 | |
| 2CMT2400 | 1.75 | 4104 | 3488 | 3078 | 2736 | 2216 | 1765 | 1.80 | 1368 | 1008 | 816 | 608 | 492 | 413 | 356 | 294 | 240 | 204 | 109 | |
| 2CMT2600 | 1.75 | 4446 | 3779 | 3335 | 2964 | 2401 | 1912 | 1.80 | 1482 | 1092 | 884 | 659 | 533 | 447 | 386 | 319 | 260 | 221 | 118 | |
| 2CMT2800 | 1.75 | 4788 | 4070 | 3591 | 3192 | 2586 | 2059 | 1.80 | 1596 | 1176 | 952 | 709 | 574 | 482 | 415 | 343 | 280 | 238 | 127 | |
| 2CMT3000 | 1.75 | 5130 | 4361 | 3848 | 3420 | 2770 | 2206 | 1.80 | 1710 | 1260 | 1020 | 760 | 615 | 516 | 445 | 368 | 300 | 255 | 136 | |
| 2CMT3200 | 1.75 | 5472 | 4651 | 4104 | 3648 | 2955 | 2353 | 1.80 | 1824 | 1344 | 1088 | 811 | 656 | 550 | 475 | 392 | 320 | 281 | 150 | |

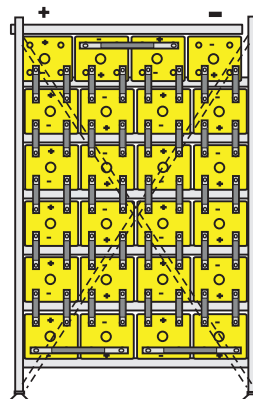
*Cell types 350 to 700 also available as high discharge rate cells with 4 terminal posts
Actual discharge data may be +/- 5% of data shown - Largest single cells is 1600 ah

Typical Tubular Zone 0 racks for 48Volt System

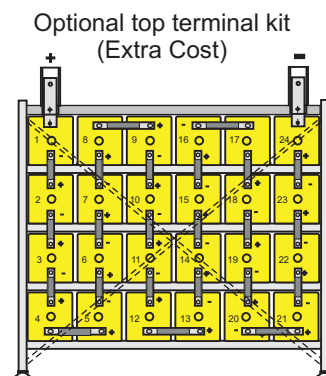
Note:- Cells up to 1600Ah. are single cells. Cells over 1600Ah. are made up of 2 x 850Ah. to 2 x1600Ah. connected in parallel or series to give 1700Ah. to 3200Ah.



Front view
24 x 2CMT2000 to 3200
(2 x 24 x 1000 to 1600)
2 x 4 post cells



Front view
24 x 2CMT750 to 1600
4 post cells



Front view
24 x 2CMT100 to 700
2 post cells



CELLYTE - Battery Sizing 2CMT Range

CELLYTE 2CMT Modular/Tubular - Watts to 1.67 / 1.75 vpc @ 20 C.

| SEC Battery TYPE | END Volts / Cell | DISCHARGE Watts per Cell at 20 C | | | | | | END Volts / Cell | DISCHARGE DATA Watts Per Cell AT 20 C | | | | | | | | | |
|------------------------|------------------------|----------------------------------|------|------|------|------|------|------------------------|---------------------------------------|------|------|------|------|------|------|------|------|--|
| | | DISCHARGE TIME IN MINUTES | | | | | | | DISCHARGE TIME IN HOURS | | | | | | | | | |
| | | 5 | 10 | 15 | 20 | 30 | 45 | | 1 | 1.5 | 2 | 3 | 4 | 5 | 6 | 8 | 10 | |
| 2CMT100 | 1.67 | 355 | 302 | 268 | 238 | 194 | 150 | 1.75 | 115 | 83.5 | 67.2 | 50.1 | 40.6 | 34.2 | 29.6 | 24.6 | 20.1 | |
| 2CMT150 | 1.67 | 532 | 453 | 403 | 356 | 291 | 224 | 1.75 | 172 | 125 | 101 | 75.2 | 60.8 | 51.3 | 44.4 | 36.9 | 30.2 | |
| 2CMT200 | 1.67 | 710 | 604 | 537 | 475 | 388 | 299 | 1.75 | 230 | 167 | 134 | 100 | 81.1 | 68.4 | 59.1 | 49.2 | 40.2 | |
| 2CMT250 | 1.67 | 887 | 755 | 671 | 594 | 485 | 374 | 1.75 | 287 | 209 | 168 | 125 | 101 | 85.5 | 73.9 | 61.5 | 50.3 | |
| 2CMT300 | 1.67 | 1065 | 906 | 805 | 713 | 582 | 449 | 1.75 | 344 | 251 | 202 | 150 | 122 | 103 | 88.7 | 73.8 | 60.4 | |
| 2CMT350* | 1.67 | 1242 | 1057 | 939 | 831 | 679 | 523 | 1.75 | 402 | 292 | 235 | 175 | 142 | 120 | 103 | 86.2 | 70.4 | |
| 2CMT400* | 1.67 | 1419 | 1208 | 1073 | 950 | 776 | 598 | 1.75 | 459 | 334 | 269 | 200 | 162 | 137 | 118 | 98.5 | 80.5 | |
| 2CMT420* | 1.67 | 1490 | 1269 | 1127 | 998 | 815 | 628 | 1.75 | 482 | 351 | 282 | 210 | 170 | 144 | 124 | 103 | 84.5 | |
| 2CMT450* | 1.67 | 1597 | 1359 | 1208 | 1069 | 873 | 673 | 1.75 | 517 | 376 | 303 | 226 | 183 | 154 | 133 | 111 | 90.5 | |
| 2CMT500* | 1.67 | 1774 | 1510 | 1342 | 1188 | 970 | 748 | 1.75 | 574 | 418 | 336 | 251 | 203 | 171 | 148 | 123 | 101 | |
| 2CMT550* | 1.67 | 1952 | 1661 | 1476 | 1306 | 1067 | 822 | 1.75 | 631 | 459 | 370 | 276 | 223 | 188 | 163 | 135 | 111 | |
| 2CMT600* | 1.67 | 2129 | 1812 | 1610 | 1425 | 1164 | 897 | 1.75 | 689 | 501 | 403 | 301 | 243 | 205 | 177 | 148 | 121 | |
| 2CMT650* | 1.67 | 2307 | 1963 | 1744 | 1544 | 1261 | 972 | 1.75 | 746 | 543 | 437 | 326 | 264 | 222 | 192 | 160 | 131 | |
| 2CMT700* | 1.67 | 2484 | 2114 | 1879 | 1663 | 1358 | 1047 | 1.75 | 804 | 585 | 471 | 351 | 284 | 239 | 207 | 172 | 141 | |
| 2CMT750 | 1.67 | 2661 | 2265 | 2013 | 1782 | 1455 | 1121 | 1.75 | 861 | 626 | 504 | 376 | 304 | 257 | 222 | 185 | 151 | |
| 2CMT800 | 1.67 | 2839 | 2416 | 2147 | 1900 | 1552 | 1196 | 1.75 | 918 | 668 | 538 | 401 | 325 | 274 | 237 | 197 | 161 | |
| 2CMT850 | 1.67 | 3016 | 2567 | 2281 | 2019 | 1649 | 1271 | 1.75 | 976 | 710 | 572 | 426 | 345 | 291 | 251 | 209 | 171 | |
| 2CMT900 | 1.67 | 3194 | 2718 | 2415 | 2138 | 1746 | 1346 | 1.75 | 1033 | 752 | 605 | 451 | 365 | 308 | 266 | 222 | 181 | |
| 2CMT1000 | 1.67 | 3549 | 3020 | 2684 | 2375 | 1940 | 1495 | 1.75 | 1148 | 835 | 672 | 501 | 406 | 342 | 296 | 246 | 201 | |
| 2CMT1100 | 1.67 | 3903 | 3322 | 2952 | 2613 | 2134 | 1645 | 1.75 | 1263 | 919 | 740 | 551 | 446 | 376 | 325 | 271 | 221 | |
| 2CMT1200 | 1.67 | 4258 | 3624 | 3220 | 2851 | 2328 | 1794 | 1.75 | 1378 | 1002 | 807 | 601 | 487 | 411 | 355 | 296 | 241 | |
| 2CMT1300 | 1.67 | 4613 | 3926 | 3489 | 3088 | 2522 | 1944 | 1.75 | 1492 | 1086 | 874 | 652 | 527 | 445 | 384 | 320 | 262 | |
| 2CMT1400 | 1.67 | 4968 | 4228 | 3757 | 3326 | 2716 | 2093 | 1.75 | 1607 | 1169 | 941 | 702 | 568 | 479 | 414 | 345 | 282 | |
| 2CMT1500 | 1.67 | 5323 | 4531 | 4025 | 3563 | 2910 | 2243 | 1.75 | 1722 | 1253 | 1009 | 752 | 608 | 513 | 444 | 369 | 302 | |
| 2CMT1600 | 1.67 | 5678 | 4833 | 4294 | 3801 | 3104 | 2392 | 1.75 | 1837 | 1336 | 1076 | 802 | 649 | 547 | 473 | 394 | 322 | |
| 2CMT1700 | 1.67 | 6032 | 5135 | 4562 | 4038 | 3298 | 2542 | 1.75 | 1952 | 1420 | 1143 | 852 | 690 | 582 | 503 | 418 | 342 | |
| 2CMT1800 | 1.67 | 6387 | 5437 | 4831 | 4276 | 3492 | 2691 | 1.75 | 2066 | 1503 | 1210 | 902 | 730 | 616 | 532 | 443 | 362 | |
| 2CMT2000 | 1.67 | 7097 | 6041 | 5367 | 4751 | 3880 | 2990 | 1.75 | 2296 | 1670 | 1345 | 1002 | 811 | 684 | 591 | 492 | 402 | |
| 2CMT2200 | 1.67 | 7807 | 6645 | 5904 | 5226 | 4268 | 3289 | 1.75 | 2526 | 1837 | 1479 | 1103 | 892 | 753 | 650 | 542 | 443 | |
| 2CMT2400 | 1.67 | 8516 | 7249 | 6441 | 5701 | 4656 | 3588 | 1.75 | 2755 | 2004 | 1614 | 1203 | 974 | 821 | 710 | 591 | 483 | |
| 2CMT2600 | 1.67 | 9226 | 7853 | 6978 | 6176 | 5044 | 3887 | 1.75 | 2985 | 2171 | 1748 | 1303 | 1055 | 889 | 769 | 640 | 523 | |
| 2CMT2800 | 1.67 | 9936 | 8457 | 7514 | 6651 | 5433 | 4186 | 1.75 | 3214 | 2338 | 1883 | 1403 | 1136 | 958 | 828 | 690 | 563 | |
| 2CMT3000 | 1.67 | 10646 | 9061 | 8051 | 7126 | 5821 | 4485 | 1.75 | 3444 | 2505 | 2017 | 1503 | 1217 | 1026 | 887 | 739 | 604 | |
| 2CMT3200 | 1.67 | 11355 | 9665 | 8588 | 7601 | 6209 | 4784 | 1.75 | 3674 | 2672 | 2152 | 1604 | 1298 | 1095 | 946 | 788 | 644 | |

*Cell types 350 to 700 also available as high discharge rate cells with 4 terminal posts

Actual discharge data may be +/- 5% of data shown - Largest single cells is 1600 ah

CELLYTE 2CMT Modular/Tubular 2 Volt AGM-VRLA Stationary Batteries

The SEC **CELLYTE 2CMT Modular/Tubular** AGM Sealed, valve regulated VRLA battery line fitted with VRLA Catalyst is a range of long life sealed, valve regulated batteries that require very little maintenance and can be mounted in any space without special ventilation. The **CELLYTE 2CMT Modular/Tubular** battery is designed to provide service for twenty years when used in float service at 20°C. These cells / batteries comply with BS 6290 Part 4, with flame retardant V-0 case, EUROBAT and the new IEC 60896-21/22-2004 standard. This range may be installed in either a horizontal or vertical configuration, although for the larger cell sizes only the horizontal configuration is recommended because of improved service life, savings in floor space and ease of installation. The container and clear plastic cover have a flame retardant rating of UL94 V-0 cells but can also be provided in standard plastic. Cells can be supplied in a Seismic Zone 4 rated steel module rack or in a Zone 0 rated tubular steel rack. The steel modular or tubular racks are designed to provide strength, ease of handling, protection against shock and vibration damage, and allows for uniform cooling of all cells. SEC **CELLYTE 2CMT Modular / Tubular** cell plates are made from virgin pure lead 1.6% Tin alloy and are tank formed prior to assembly. The chemical composition, and morphological structure of the positive plate active material, is optimised to give plates and cells which have the highest possible service-life in float service and up to 1200 x 80% deep cycles. The battery end of life is defined as when the battery system can no longer deliver 80% of the rated capacity for which it was initially designed. Modular /Tubular batteries are clearly marked with the SEC battery reference, nominal capacity (C/10 to 1.8 Vpc 20 C or C/8 to 1.75 Vpc at 25C), environmental related information and date of manufacture.

Benefits of Catalyst in SEC VRLA Batteries

Catalyst Reduces Float Current

One of the most immediate, observable effects of installing a catalyst in a VRLA cell is a sudden drop in the float current. Typically float currents are one half or less when a catalyst is installed. Adding a catalyst to the cell prevents some of the oxygen reaching the negative plate and allows the negative plate to stay polarised. This means that less current needs to be supplied to the cell from the charging system, manifesting itself as lower float current, leading to the following benefit :-

* Minimize water loss

Gasses are recombined into water inside the cell rather than exiting the cell. Too much gas leaving the cell can lead to premature dry-out and cell failure. Cell dry is a major cause of VRLA cell failure

* Increased life

There are many potential failure modes of VRLA cells. A number of these failure modes can be mitigated by the catalyst technology such as: Cell dry out, positive plate corrosion, thermal runaway, capacity loss due to negative plate depolarization

* Minimize positive plate corrosion

A reduction in float current reduces the amount of over-charge on the positive plate which directly impacts the corrosion rate. The design life of a lead acid cell is based on the corrosion of the plate barring any other unforeseen failure modes.

* Maintain cell capacity

Many VRLA cells in service are failing capacity tests because their negative plates are depolarized. In fact significant capacity increases have been seen on some cells just by installing a catalyst.

“SEC-CAT” Catvent™ - Catalyst Vent Plug

SEC's **CELLYTE 2CMT** VRLA cells incorporate the Philadelphia Scientific Precious Metal **Catvent™** to stabilise the negative plate, enhance the water recombination process within the cell, reduce cell dry out, reduces float current by up to 50%, positive plate corrosion, thermal runaway, and capacity loss due to negative plate polarisation. This makes the **CELLYTE 2CMT** battery ideally suited for Telecom, UPS, Photovoltaic, Wind power, and other Float & Shallow Cyclic applications. Manufactured to Quality system certified to ISO 9001-2000

FEATURES :

The **CELLYTE 2CMT** 'High Integrity' high density battery is supplied as a free standing 2 volt vertical or horizontal cells in a Modular or Tubular steel racking system for minimum floor space, uniform cell cooling and extra long life. The Zone 4 Modular battery rack design provides a strong battery rack that is reduced in both height, width. The Zone 0 Tubular battery racks for use in regions that are not subject to earthquakes.

System Configuration:

24 and 48 volts for Telecommunications and 120, 240 and 480 volts for UPS, Power and Switchgear Control

Operating temperature : -25C to +55C

However we recommend that the batteries be operated in the temperature range of 20 to 25C, to obtain full life and optimum performance.

Applicable Standards

IEC 60896-21/22-2004

BS 6290 Part 4

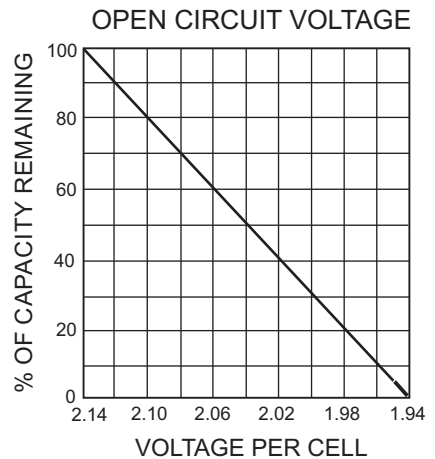
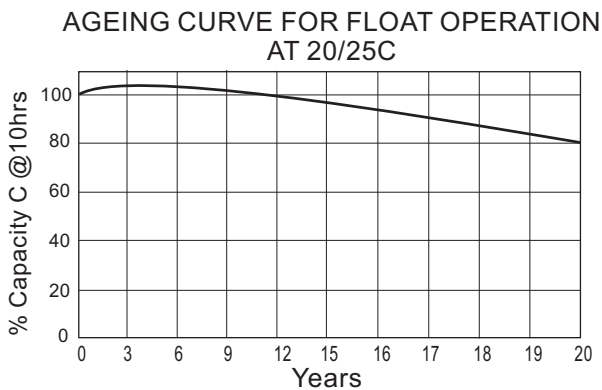
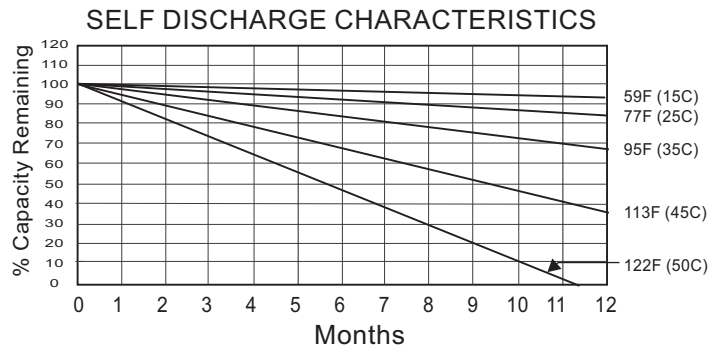
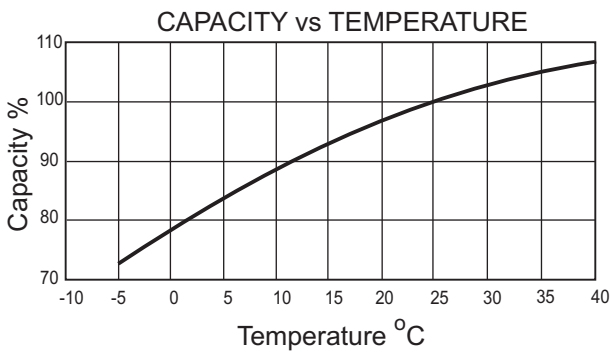
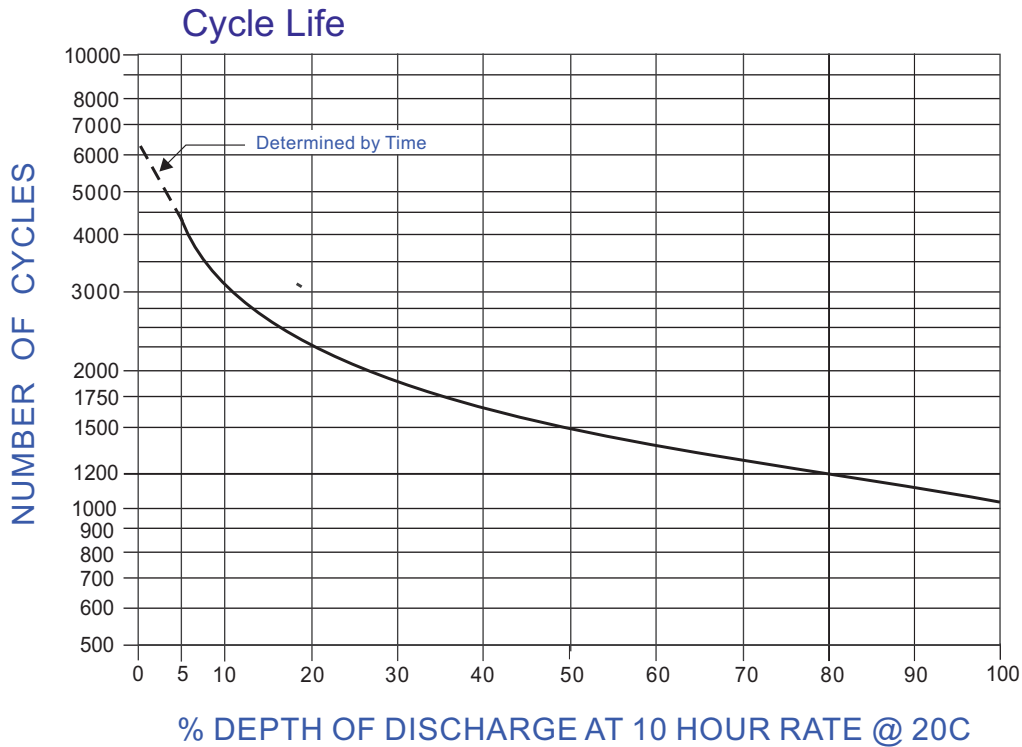
Eurobat

UL Component approval

ISO 9001:2000

ISO 14001:2004

CELLYTE - 2CMT Range Cell DATA



SEC Industrial Battery Co. range of products

| | | | |
|---|---|--|--------------------------------|
| | | | |
| <p>CELLYTE 2CMT/G Modular Steel Rack</p> | <p>CELLYTE 2TLAM/G Tubular Steel Rack</p> | <p>CELLYTE 2CMT/G, CELLYTE 2TLAM/G with Catalyst</p> | |
| | | | |
| <p>CELLYTE 12PLF & 12PLT Range</p> | <p>CELLYTE 12FTA/G Range</p> | <p>CELLYTE 6-12TUA Range</p> | <p>CELLYTE 6-12TSG Range</p> |
| | | | |
| <p>CELLYTE 6-12TLA Range</p> | <p>CELLYTE 6-12TLG Range</p> | <p>MICROLYTE +Plus Range</p> | <p>MICROLYTE Red Top Range</p> |
| | | | |
| <p>CELLYTE 2ETG OPzV Range Tubular Steel Rack</p> | <p>SEC Tubular OPzS Range</p> | <p>Nickel Cadmium Range Pocket Plate flooded and Valve Regulated</p> | <p>Typical VRLA catalyst</p> |

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SEC
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world wide supplier

