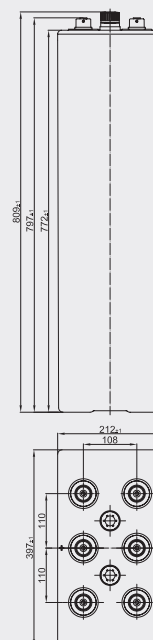


OPzS Cell 2V 14 OPzS 1700

Technical Characteristics

| | |
|--|--------------------------|
| Capacity (Ah), C ₁₀ (1.8 V/cell, 20 °C) | 2021 |
| Plate Capacity (Ah), C ₁₀ (1.8 V/cell, 20 °C) | 125 |
| Number of plates (+) per cell | 14 |
| Content in Antimony of positive plates | ≤1.65% |
| Nominal voltage (V) | 2 |
| Electrolyte density for fully charged state at 25 °C (gr/ml) | 1.24 |
| Floating voltage set point (V/cell) | 2.23 |
| Floating voltage tolerance from set point | +/-0.02 V (2.21-2.25) |
| Single cell floating voltage tolerance from set point | +0.1V-0.05 V (2.18-2.33) |
| Initial charge current (A) | 170 |
| End of charge Voltage (V/cell) | 2.35 to 2.40 |
| Recommended End of Discharge voltage for 10-hr rate (V/cell) | 1.80 |
| Recommended End of Discharge voltage for 1-hr rate (V/cell) | 1.65 |
| Short circuit current (A) | 10200 |
| Internal resistance (mOhm/cell) | 0.20 |
| Number of cycles at 60% depth of discharge | 2000 |
| Self-discharge rate per month | <2.5% |
| Efficiency factor (kWh) | 85% |
| Efficiency factor (Ah) | 95% |
| Dimensions in mm (LxWxH) | 397x212x797 |
| Weight: | |
| • Without electrolyte (kg) | 96.3 |
| • With electrolyte (kg) | 143.3 |
| Type and number of poles | M10 / 6 |



OPzS Cell 2V 14 OPzS 1700

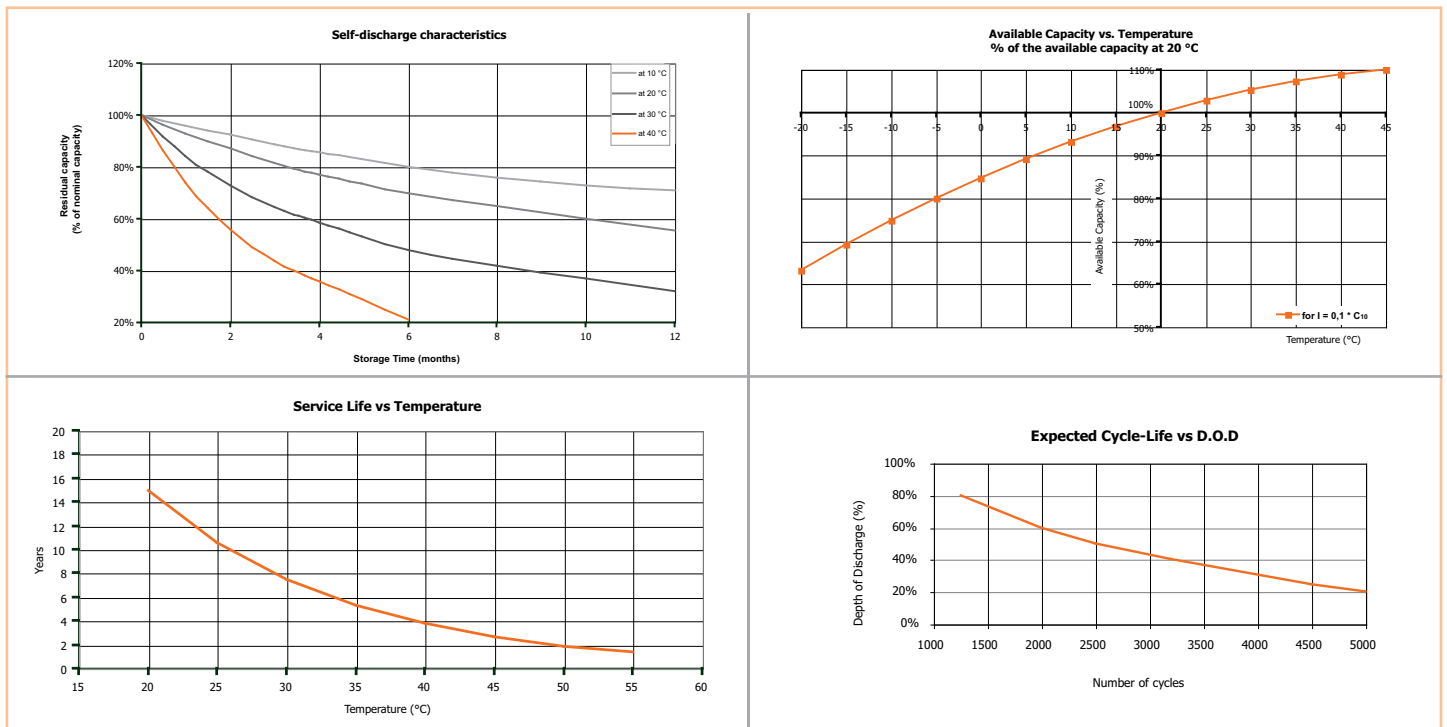
Constant Current Discharge in A/cell (at 20 °C)

| Uend | Discharge Time | | | | | | | | | | | | |
|--------|----------------|--------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | 15 min | 30 min | 45 min | 1 h | 1.5 h | 2 h | 3 h | 4 h | 5 h | 6 h | 8 h | 10 h | 20 h |
| 1.60 V | 1724.7 | 1414.9 | 1169.9 | 1022.2 | 811.6 | 681.0 | 527.0 | 434.4 | 374.1 | 327.3 | 264.3 | 219.7 | 125.0 |
| 1.65 V | 1554.9 | 1299.8 | 1099.4 | 976.3 | 788.8 | 666.2 | 518.5 | 428.2 | 369.5 | 323.4 | 261.6 | 217.7 | 123.7 |
| 1.70 V | 1374.1 | 1168.8 | 1007.1 | 906.0 | 750.9 | 642.3 | 505.7 | 419.3 | 362.6 | 318.1 | 257.8 | 215.0 | 122.0 |
| 1.75 V | 1147.3 | 1005.4 | 889.5 | 815.5 | 692.9 | 602.5 | 483.9 | 405.4 | 350.8 | 310.2 | 251.0 | 210.1 | 119.1 |
| 1.80 V | 944.0 | 856.9 | 774.4 | 720.7 | 624.0 | 552.3 | 451.2 | 382.1 | 333.6 | 295.1 | 239.2 | 202.1 | 114.2 |
| 1.83 V | 824.8 | 754.1 | 689.7 | 647.3 | 570.0 | 507.3 | 419.1 | 357.0 | 314.4 | 278.2 | 228.3 | 191.2 | 109.4 |
| 1.85 V | 748.8 | 691.0 | 636.4 | 600.2 | 529.2 | 472.6 | 392.3 | 335.2 | 294.7 | 263.2 | 216.4 | 183.1 | 103.6 |
| 1.87 V | 672.6 | 624.1 | 575.8 | 543.9 | 481.0 | 430.4 | 362.6 | 313.2 | 278.4 | 249.0 | 205.2 | 172.8 | 99.4 |
| 1.90 V | 553.6 | 515.6 | 480.3 | 456.7 | 411.4 | 372.6 | 318.6 | 276.2 | 245.7 | 221.3 | 183.8 | 156.7 | 89.8 |

Constant Power Discharge in W/cell (at 20 °C)

| Uend | Discharge Time | | | | | | | | | | | | |
|--------|----------------|--------|--------|--------|--------|--------|-------|-------|-------|-------|-------|-------|-------|
| | 15 min | 30 min | 45 min | 1 h | 1.5 h | 2 h | 3 h | 4 h | 5 h | 6 h | 8 h | 10 h | 20 h |
| 1.60 V | 2815.9 | 2407.0 | 2037.1 | 1809.7 | 1459.2 | 1243.2 | 969.1 | 807.6 | 700.3 | 616.1 | 499.8 | 417.7 | 237.9 |
| 1.65 V | 2611.0 | 2254.3 | 1935.6 | 1737.1 | 1421.4 | 1218.0 | 954.0 | 796.5 | 691.9 | 608.9 | 494.8 | 414.0 | 235.5 |
| 1.70 V | 2378.7 | 2073.5 | 1800.7 | 1629.1 | 1358.5 | 1177.0 | 931.5 | 780.7 | 679.3 | 599.3 | 487.9 | 408.9 | 232.2 |
| 1.75 V | 2038.7 | 1807.7 | 1608.9 | 1481.3 | 1268.4 | 1110.3 | 899.1 | 758.6 | 660.4 | 586.3 | 478.8 | 401.0 | 227.3 |
| 1.80 V | 1718.0 | 1561.4 | 1417.5 | 1323.4 | 1150.7 | 1025.5 | 843.8 | 718.7 | 631.7 | 560.0 | 457.0 | 386.0 | 221.3 |
| 1.83 V | 1518.9 | 1395.1 | 1275.8 | 1197.4 | 1060.9 | 951.5 | 792.3 | 678.2 | 597.5 | 530.9 | 438.1 | 369.9 | 211.6 |
| 1.85 V | 1394.1 | 1289.5 | 1188.8 | 1122.1 | 993.3 | 891.1 | 746.6 | 639.6 | 564.7 | 503.1 | 419.1 | 354.6 | 201.0 |
| 1.87 V | 1267.7 | 1176.0 | 1086.6 | 1027.4 | 911.7 | 819.5 | 695.0 | 603.3 | 537.0 | 480.4 | 398.7 | 337.8 | 194.5 |
| 1.90 V | 1053.6 | 982.9 | 917.7 | 874.2 | 787.9 | 717.9 | 616.2 | 536.4 | 477.6 | 431.7 | 359.8 | 308.5 | 178.7 |

Diagrams



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