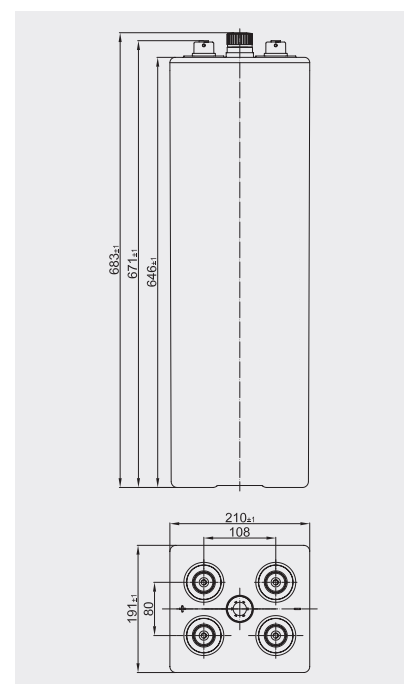


OPzS Cell 2V 8 OPzS 800

Technical Characteristics

| | |
|--|--------------------------|
| Capacity (Ah), C ₁₀ (1.8 V/cell, 20 °C) | 875 |
| Plate Capacity (Ah), C ₁₀ (1.8 V/cell, 20 °C) | 100 |
| Number of plates (+) per cell | 8 |
| 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) | 80 |
| 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) | 6020 |
| Internal resistance (mOhm/cell) | 0.34 |
| 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) | 191x210x671 |
| Weight: | |
| • Without electrolyte (kg) | 46.8 |
| • With electrolyte (kg) | 63.8 |
| Type and number of poles | M10 / 4 |



OPzS Cell 2V 8 OPzS 800

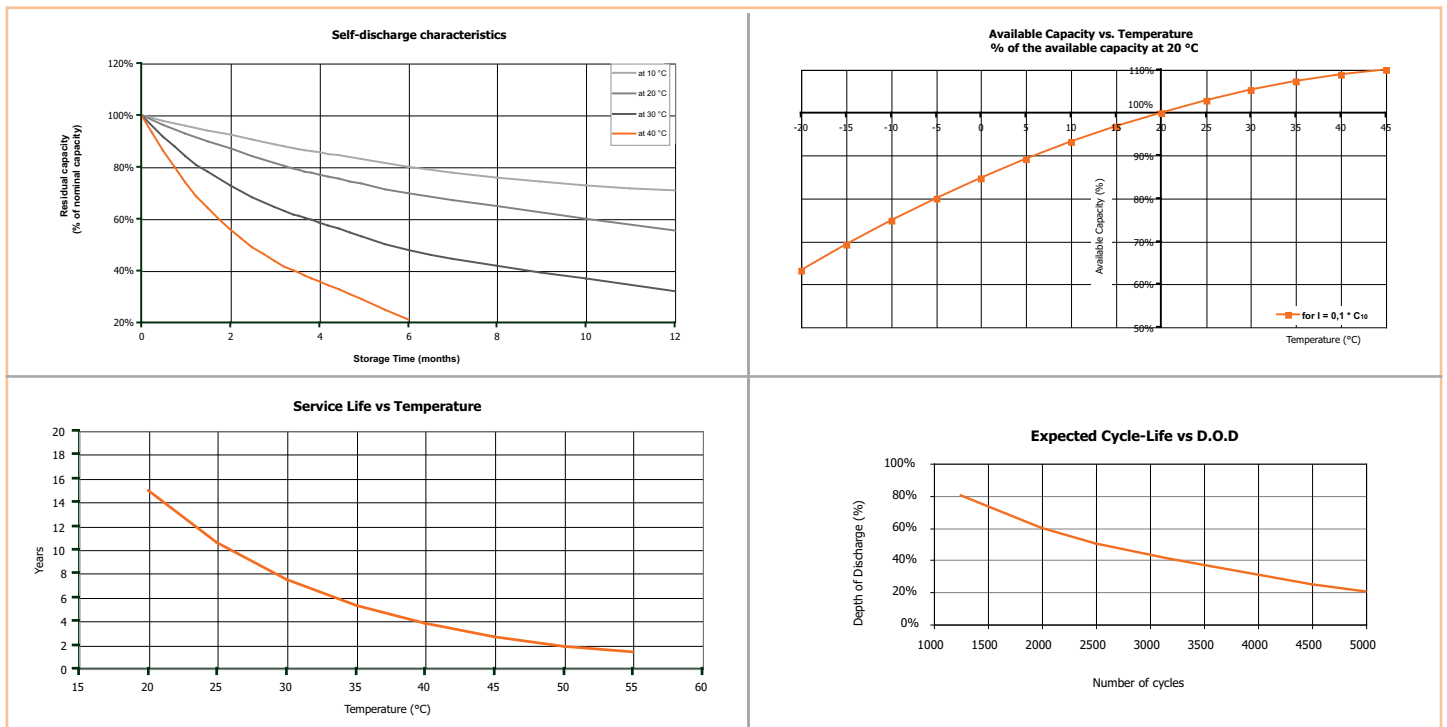
Constant Current Discharge in A/cell (at 20 °C)

| 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 | 835.5 | 664.6 | 544.1 | 472.1 | 370.8 | 306.4 | 233.2 | 191.0 | 159.3 | 139.6 | 110.1 | 95.0 | 51.4 |
| 1.65 V | 760.1 | 622.5 | 520.0 | 457.6 | 362.9 | 301.0 | 229.9 | 188.8 | 157.4 | 138.1 | 109.0 | 94.1 | 51.0 |
| 1.70 V | 678.2 | 567.9 | 485.5 | 434.3 | 350.5 | 292.9 | 225.2 | 185.4 | 155.0 | 136.0 | 107.5 | 92.9 | 50.5 |
| 1.75 V | 589.4 | 506.8 | 442.6 | 402.1 | 330.4 | 280.8 | 219.1 | 181.3 | 151.0 | 132.1 | 103.7 | 89.8 | 49.6 |
| 1.80 V | 487.5 | 427.0 | 380.0 | 349.8 | 298.4 | 257.7 | 206.0 | 172.3 | 145.8 | 128.9 | 103.3 | 87.5 | 48.7 |
| 1.83 V | 421.3 | 375.6 | 338.9 | 315.1 | 273.5 | 238.7 | 192.0 | 162.2 | 138.7 | 123.7 | 100.2 | 84.3 | 47.1 |
| 1.85 V | 381.3 | 340.9 | 312.0 | 293.0 | 253.7 | 221.9 | 181.0 | 155.1 | 133.5 | 119.5 | 96.5 | 81.8 | 45.8 |
| 1.87 V | 338.4 | 307.9 | 282.3 | 265.4 | 232.9 | 206.8 | 170.8 | 146.0 | 126.3 | 112.5 | 90.7 | 77.8 | 43.9 |
| 1.90 V | 280.6 | 254.0 | 236.3 | 224.6 | 200.0 | 179.0 | 149.0 | 129.0 | 112.4 | 100.6 | 82.6 | 71.3 | 40.2 |

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 | 1374.8 | 1145.6 | 957.4 | 842.9 | 670.2 | 560.4 | 429.0 | 356.3 | 298.9 | 263.7 | 209.0 | 179.9 | 97.9 |
| 1.65 V | 1281.7 | 1085.6 | 920.6 | 819.0 | 657.0 | 550.9 | 423.2 | 352.1 | 295.5 | 261.0 | 206.9 | 178.3 | 97.2 |
| 1.70 V | 1173.2 | 1007.2 | 868.2 | 781.3 | 635.7 | 536.7 | 414.9 | 346.0 | 291.1 | 257.1 | 204.0 | 176.1 | 96.2 |
| 1.75 V | 1046.3 | 912.0 | 801.2 | 730.9 | 606.2 | 517.4 | 407.3 | 338.8 | 284.1 | 250.3 | 198.2 | 171.2 | 94.9 |
| 1.80 V | 887.0 | 777.3 | 695.5 | 642.6 | 551.4 | 479.1 | 385.9 | 323.6 | 275.5 | 244.7 | 197.6 | 167.9 | 94.0 |
| 1.83 V | 776.2 | 694.6 | 627.3 | 583.5 | 509.5 | 448.8 | 362.8 | 307.4 | 265.1 | 236.3 | 192.3 | 162.7 | 91.5 |
| 1.85 V | 710.3 | 636.4 | 582.7 | 547.4 | 476.8 | 419.3 | 344.6 | 295.9 | 254.8 | 228.1 | 186.1 | 158.3 | 89.3 |
| 1.87 V | 636.9 | 579.6 | 532.3 | 501.0 | 440.2 | 394.9 | 327.2 | 281.5 | 244.3 | 217.8 | 176.0 | 152.0 | 86.0 |
| 1.90 V | 534.9 | 484.2 | 451.4 | 429.5 | 383.5 | 345.3 | 287.6 | 250.6 | 219.3 | 196.8 | 161.3 | 140.7 | 80.1 |

Diagrams



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