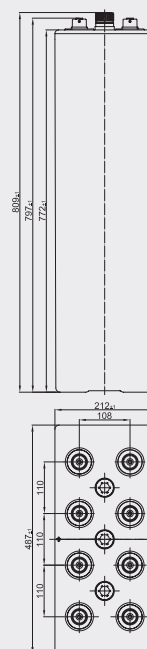


OPzS Cell 2V 18 OPzS 2250

Technical Characteristics

| | |
|--|--------------------------|
| Capacity (Ah), C ₁₀ (1.8 V/cell, 20 °C) | 2574 |
| Plate Capacity (Ah), C ₁₀ (1.8 V/cell, 20 °C) | 125 |
| Number of plates (+) per cell | 18 |
| 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) | 225 |
| 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) | 14600 |
| Internal resistance (mOhm/cell) | 0.140 |
| 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) | 487x212x797 |
| Weight: | |
| • Without electrolyte (kg) | 125.0 |
| • With electrolyte (kg) | 184.0 |
| Type and number of poles | M10 / 8 |



OPzS Cell 2V 18 OPzS 2250

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

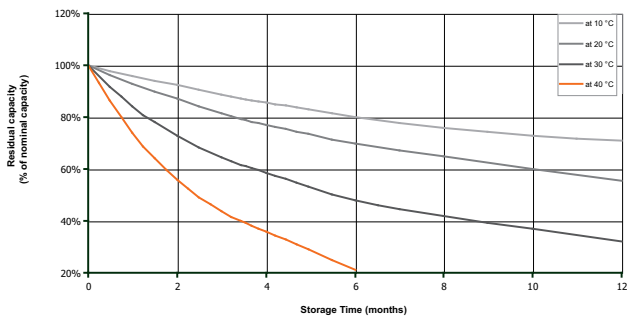
| Uend | Discharge Time | | | | | | | | | | | | |
|--------|----------------|--------|--------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| | 15 min | 30 min | 45 min | 1 h | 1.5 h | 2 h | 3 h | 4 h | 5 h | 6 h | 8 h | 10 h | 20 h |
| 1.60 V | 2211.2 | 1819.5 | 1496.7 | 1303.0 | 1038.8 | 873.8 | 674.5 | 554.6 | 478.2 | 418.2 | 338.2 | 280.5 | 157.6 |
| 1.65 V | 1993.7 | 1672.7 | 1408.0 | 1245.9 | 1010.0 | 855.3 | 663.7 | 547.5 | 472.2 | 413.5 | 334.6 | 277.8 | 156.0 |
| 1.70 V | 1762.2 | 1504.8 | 1291.2 | 1158.3 | 963.3 | 825.7 | 647.5 | 536.6 | 463.3 | 406.9 | 329.7 | 274.2 | 154.4 |
| 1.75 V | 1472.1 | 1290.0 | 1141.4 | 1046.4 | 891.0 | 774.2 | 620.7 | 519.8 | 448.5 | 396.0 | 320.8 | 267.3 | 151.5 |
| 1.80 V | 1209.8 | 1099.9 | 995.0 | 926.6 | 803.9 | 710.8 | 580.1 | 490.1 | 426.7 | 378.2 | 305.9 | 257.4 | 144.5 |
| 1.83 V | 1058.3 | 967.2 | 886.0 | 832.6 | 733.6 | 654.4 | 539.6 | 458.4 | 401.9 | 356.4 | 291.1 | 243.5 | 137.6 |
| 1.85 V | 960.3 | 888.0 | 818.9 | 773.2 | 682.1 | 608.9 | 504.9 | 430.7 | 378.2 | 336.6 | 277.2 | 233.6 | 130.7 |
| 1.87 V | 864.3 | 801.9 | 740.6 | 699.9 | 620.7 | 554.4 | 466.3 | 402.9 | 357.4 | 318.8 | 263.3 | 220.8 | 125.7 |
| 1.90 V | 712.8 | 662.3 | 617.8 | 588.1 | 530.6 | 481.1 | 410.9 | 356.4 | 315.8 | 284.1 | 236.6 | 201.0 | 114.8 |

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

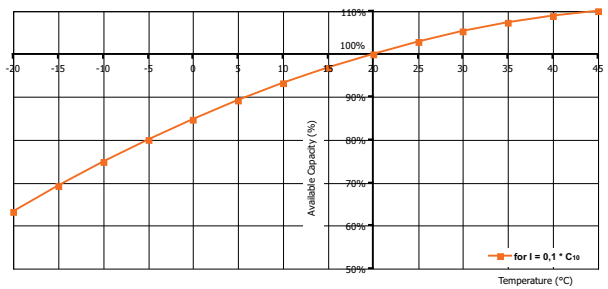
| Uend | Discharge Time | | | | | | | | | | | | |
|--------|----------------|--------|--------|--------|--------|--------|--------|--------|-------|-------|-------|-------|-------|
| | 15 min | 30 min | 45 min | 1 h | 1.5 h | 2 h | 3 h | 4 h | 5 h | 6 h | 8 h | 10 h | 20 h |
| 1.60 V | 3611.2 | 3096.6 | 2607.9 | 2308.7 | 1869.0 | 1596.5 | 1241.4 | 1032.3 | 896.8 | 788.0 | 640.4 | 532.4 | 300.2 |
| 1.65 V | 3347.6 | 2901.0 | 2479.8 | 2218.5 | 1821.5 | 1564.7 | 1222.4 | 1019.4 | 885.8 | 779.5 | 633.9 | 527.6 | 297.2 |
| 1.70 V | 3050.3 | 2668.3 | 2308.2 | 2082.6 | 1743.1 | 1513.3 | 1194.0 | 999.9 | 869.7 | 767.3 | 624.6 | 520.8 | 294.2 |
| 1.75 V | 2615.7 | 2319.5 | 2063.8 | 1899.7 | 1631.7 | 1427.1 | 1155.4 | 973.7 | 844.5 | 748.0 | 610.2 | 511.2 | 289.3 |
| 1.80 V | 2200.5 | 2002.6 | 1820.3 | 1701.1 | 1483.3 | 1320.1 | 1085.5 | 922.2 | 807.6 | 717.7 | 583.8 | 492.5 | 278.7 |
| 1.83 V | 1948.3 | 1790.0 | 1638.5 | 1538.9 | 1366.6 | 1226.3 | 1018.8 | 871.9 | 763.9 | 678.8 | 559.4 | 469.2 | 267.9 |
| 1.85 V | 1787.5 | 1656.0 | 1529.4 | 1445.5 | 1281.4 | 1148.6 | 961.6 | 821.3 | 724.0 | 644.7 | 536.0 | 453.7 | 254.1 |
| 1.87 V | 1629.0 | 1511.0 | 1398.3 | 1323.4 | 1176.6 | 1055.2 | 893.5 | 775.7 | 690.2 | 615.7 | 511.7 | 430.3 | 245.3 |
| 1.90 V | 1357.9 | 1263.2 | 1180.5 | 1125.1 | 1018.0 | 926.8 | 796.1 | 690.9 | 614.1 | 553.3 | 462.9 | 396.2 | 227.8 |

Diagrams

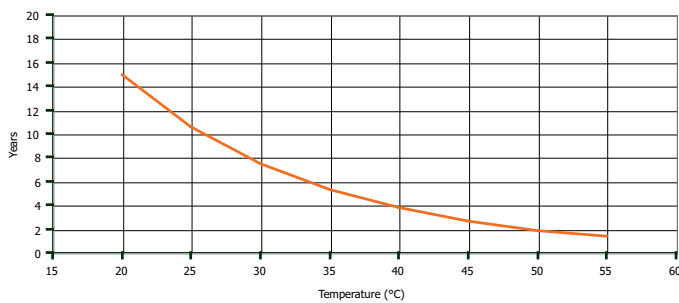
Self-discharge characteristics



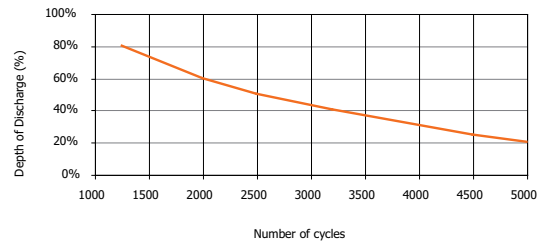
Available Capacity vs. Temperature
% of the available capacity at 20 °C



Service Life vs Temperature



Expected Cycle-Life vs D.O.D



SYSTEMS SUNLIGHT S.A.

Headquarters:

23rd km. National Road Athens-Lamia
145 65 Ag. Stefanos Attica, Greece
Tel.: +30 210 6245400
Fax: +30 210 6245409

Manufacturing Plant:

Neo Olvio
67 200 Xanthi, Greece
Tel.: +30 25410 48100
Fax: +30 25410 95446

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www.sunlight.gr