

# UP-OPzS Series

## 26 OPzS 3250

O P z S C E L L



### Main Features

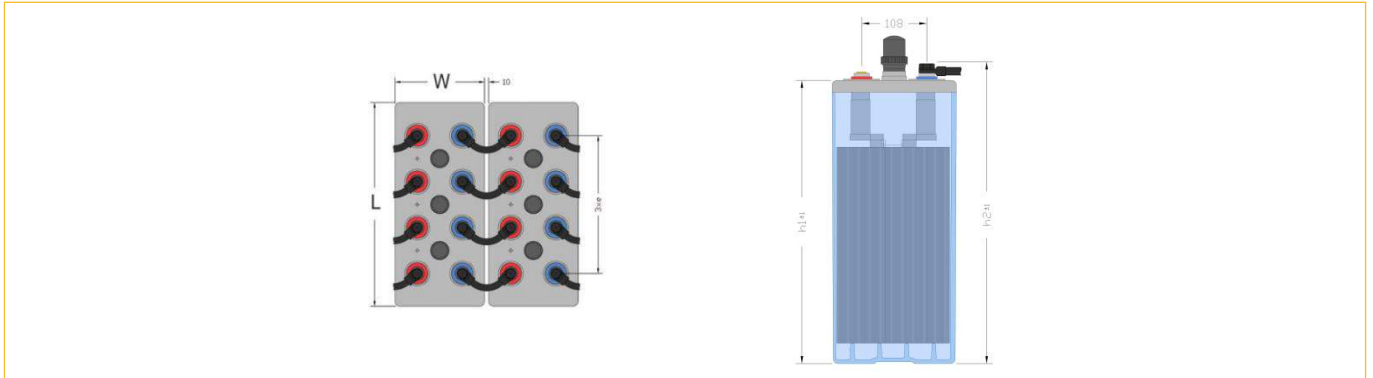
- **Design Life**  
20 years at 20°C.
- **Water Refilling**  
More than 2 years at 20°C.
- **IIEC 896-1**  
2300 cycles.
- **Self Discharge**  
Approx. 2% per month at 20°C.
- **Operating Temperature Range**  
-20°C to 55°C, recommended 10°C to 30°C.
- **Full Conformity with**  
DIN 40737-1, IIEC 896-11 and EN 50272-2.

### Technical Specifications

|  |                        |
|--|------------------------|
| Capacity (Ah), C100 (1,85 V/cell, 20°C)  | 5355                   |
| Capacity (Ah), C10 (1,80 V/cell, 20°C)   | 3671                   |
| Number of Plates (+) per Cell  | 26                     |
| Floating Voltage Set Point (V/cell)  | 2.23                   |
| Maximum Initial Charge Current (A)   | 0.3 C10                |
| Recommended Boost Charge Voltage (V/cell)  | 2.40                   |
| Recommended End of Discharge Voltage (10-hr rate) (V/cell)   | 1.80                   |
| Short Circuit Current (A)  | 20600                  |
| Internal Resistance (mOhm)   | 0.098                  |
| Number of Cycles at 60% Depth of Discharge (20°C)  | 2300                   |
| Self-Discharge Rate per Month at 20°C  | Approx. 2.5%           |
| Dimensions in mm (L x W x H1 / H2)<br>H1 = Height to the lid<br>H2 = Height including connectors & bolts | 576 x 212 x 772 x 800  |
| Weight (kg)  | Wet: 240.3 / Dry: 176  |
| Type and Number of Poles   | M10 / 8                |
| Operating Temperature / Recommended Temperature  | -20°C-55°C / 10°C-30°C |

\* All dimensions and weights shown are subject to manufacturing tolerances.

Dimensions



Constant Current Discharge in A (at 20°C)

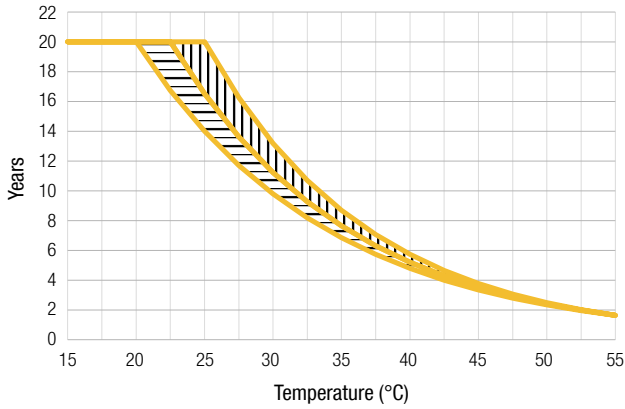
| End Voltage (V/cell) | Discharge Time |        |        |        |        |        |        |       |       |       |       |       |       |       |       |
|----------------------|----------------|--------|--------|--------|--------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|
|                      | 10min          | 15min  | 30min  | 45min  | 1h     | 2h     | 3h     | 4h    | 5h    | 6h    | 7h    | 8h    | 10h   | 12h   | 20h   |
| 1.60 V               | 3667.0         | 3481.1 | 2981.3 | 2561.8 | 2223.9 | 1423.0 | 1052.3 | 842.5 | 706.6 | 610.8 | 539.1 | 483.4 | 402.0 | 345.2 | 223.4 |
| 1.65 V               | 3267.6         | 3115.0 | 2706.1 | 2364.4 | 2083.7 | 1383.3 | 1033.3 | 830.4 | 697.8 | 603.8 | 533.4 | 478.5 | 398.2 | 342.0 | 221.6 |
| 1.70 V               | 2860.9         | 2737.7 | 2408.4 | 2135.5 | 1908.3 | 1317.1 | 1001.9 | 811.2 | 684.2 | 593.3 | 524.9 | 471.3 | 392.8 | 337.6 | 219.1 |
| 1.75 V               | 2438.4         | 2356.3 | 2094.2 | 1879.4 | 1700.3 | 1217.1 | 946.7  | 776.9 | 660.3 | 575.3 | 510.5 | 459.4 | 384.0 | 330.7 | 215.3 |
| 1.80 V               | 1977.6         | 1962.6 | 1766.9 | 1600.6 | 1462.7 | 1084.1 | 861.6  | 717.3 | 616.0 | 540.9 | 482.8 | 436.5 | 367.1 | 317.5 | 208.5 |
| 1.83 V               | 1694.4         | 1669.8 | 1564.2 | 1425.1 | 1308.7 | 988.3  | 796.0  | 668.4 | 577.6 | 509.5 | 456.5 | 414.0 | 349.9 | 303.8 | 201.2 |
| 1.85 V               | 1494.0         | 1487.5 | 1428.7 | 1304.5 | 1202.2 | 918.2  | 746.0  | 630.2 | 546.8 | 483.9 | 434.7 | 395.0 | 335.0 | 291.5 | 194.4 |
| 1.87 V               | 1333.8         | 1320.4 | 1285.7 | 1182.5 | 1092.6 | 843.6  | 690.9  | 587.1 | 511.8 | 454.4 | 409.3 | 372.8 | 317.1 | 276.7 | 185.7 |
| 1.90 V               | 1058.8         | 1053.7 | 1038.2 | 996.2  | 924.2  | 723.8  | 599.3  | 513.7 | 450.7 | 402.3 | 363.9 | 332.6 | 284.6 | 249.4 | 169.3 |

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

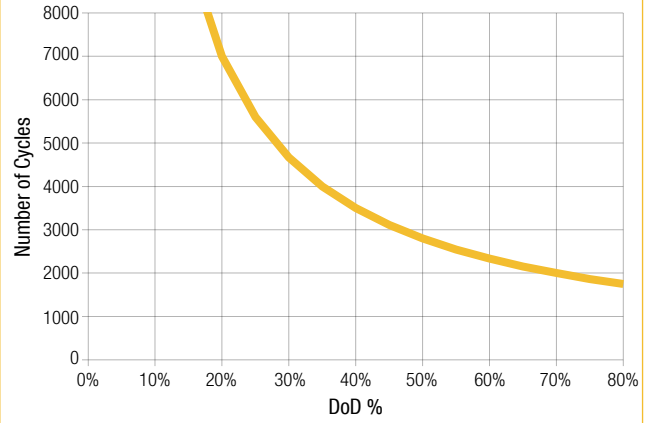
| End Voltage (V/cell) | Discharge Time |        |        |        |        |        |        |        |        |        |        |       |       |       |       |
|----------------------|----------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|-------|-------|
|                      | 10min          | 15min  | 30min  | 45min  | 1h     | 2h     | 3h     | 4h     | 5h     | 6h     | 7h     | 8h    | 10h   | 12h   | 20h   |
| 1.60 V               | 5804.0         | 5526.6 | 4803.2 | 4203.4 | 3716.5 | 2504.2 | 1897.6 | 1540.5 | 1303.9 | 1134.3 | 1006.3 | 905.9 | 757.8 | 653.4 | 427.2 |
| 1.65 V               | 5340.8         | 5095.4 | 4468.3 | 3953.7 | 3530.0 | 2443.1 | 1867.8 | 1521.4 | 1289.9 | 1123.3 | 997.2  | 898.0 | 751.7 | 648.4 | 424.3 |
| 1.70 V               | 4827.9         | 4618.1 | 4083.4 | 3649.7 | 3289.5 | 2341.0 | 1817.0 | 1490.2 | 1267.7 | 1106.2 | 983.2  | 886.3 | 742.8 | 641.2 | 420.1 |
| 1.75 V               | 4229.8         | 4094.0 | 3647.8 | 3288.7 | 2991.1 | 2187.2 | 1727.4 | 1432.8 | 1227.3 | 1075.6 | 958.8  | 866.1 | 727.8 | 629.4 | 413.7 |
| 1.80 V               | 3539.5         | 3482.8 | 3162.4 | 2872.8 | 2632.8 | 1977.4 | 1588.9 | 1333.4 | 1152.3 | 1016.6 | 911.0  | 826.2 | 698.4 | 606.3 | 401.8 |
| 1.83 V               | 3117.5         | 3101.2 | 2846.2 | 2596.3 | 2389.6 | 1822.2 | 1480.0 | 1251.0 | 1086.6 | 962.5  | 865.3  | 786.9 | 668.1 | 581.9 | 388.8 |
| 1.85 V               | 2811.8         | 2797.6 | 2626.4 | 2401.6 | 2216.7 | 1706.0 | 1395.6 | 1185.6 | 1033.5 | 917.9  | 827.0  | 753.5 | 641.5 | 560.1 | 376.4 |
| 1.87 V               | 2498.8         | 2486.3 | 2398.5 | 2199.3 | 2034.4 | 1579.7 | 1301.3 | 1110.9 | 972.1  | 866.0  | 782.1  | 713.9 | 609.6 | 533.5 | 360.7 |
| 1.90 V               | 2016.3         | 1998.2 | 1961.0 | 1881.4 | 1746.2 | 1372.5 | 1141.2 | 981.4  | 863.6  | 772.9  | 700.6  | 641.5 | 550.6 | 483.7 | 330.6 |

\* Upower reserves the right to change or revise without notice any information or detail given in this publication.

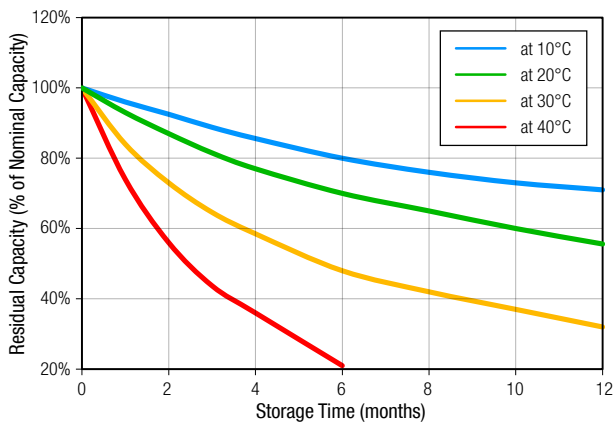
Expected Service Life vs. Operating Temperature



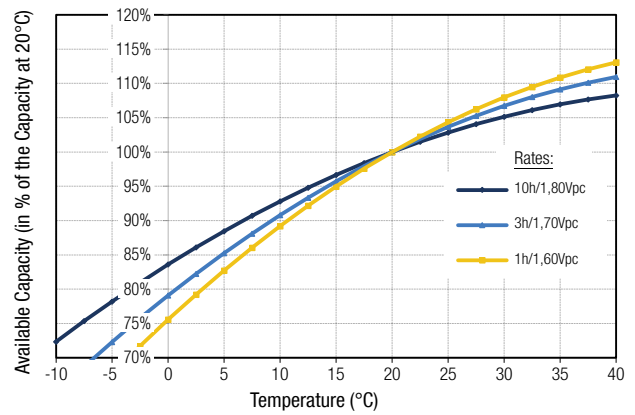
Number of Cycles vs. DOD



Self-Discharge Characteristics



Capacity vs. Temperature



Float Voltage Setting vs. Operating Temperature

