

UP Series

22 OPzV 2750

O P z V C E L L



Main Features

- Design Life**
More than 15 years at 20°C.
- IIEC 896-1**
1500 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**
IIEC 896-1, IEC 60896-21 and EN 61427.

Technical Specifications

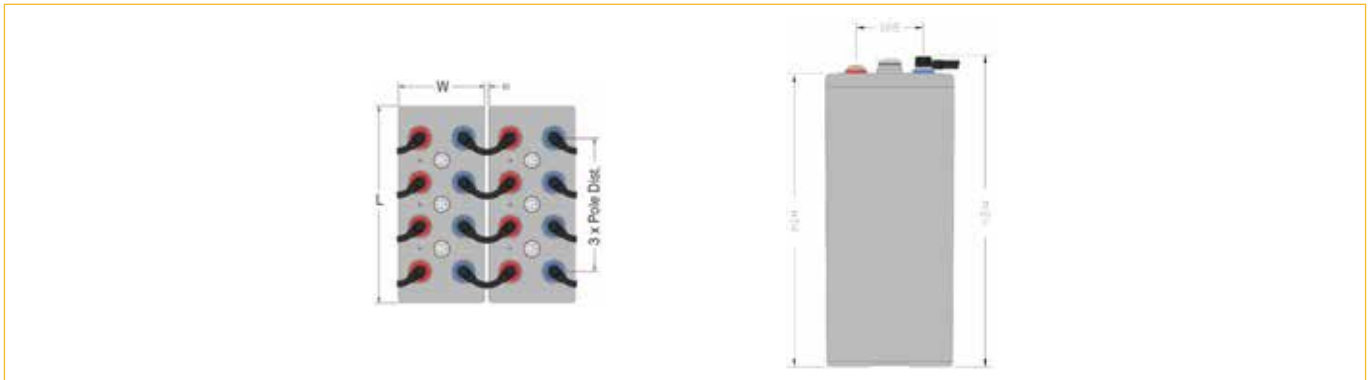
Capacity (Ah), C10 (1,80 V/cell, 20°C)	3080
Capacity (Ah), C8 (1,75 V/cell, 20°C)	3102
Number of Plates (+) per Cell	22
Floating Voltage Set Point (V/cell)	2.25
Maximum Initial Charge Current (A)	0.3 C10
Recommended Boost Charge Voltage (V/cell)	2.35
Recommended End of Discharge Voltage (10-hr rate) (V/cell)	1.80
Short Circuit Current (A)	17750
Internal Resistance (mOhm)	0.115
Number of Cycles at 60% Depth of Discharge	2500
Self-Discharge Rate per Month at 20°C	Approx. 2%
Dimensions in mm (L x W x H1 x H2) H1 = Height to the lid H2 = Height including connectors & bolts	576 x 212 x 771 x 799
Weight (kg)	221.5
Type and Number of Poles	M10 / 8
Operating Temperature / Recommended Temperature	-20°C - 45°C/10°C - 30°C

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

** Vertical installation is the default installation for OPzV cells.

For horizontal installation special 'OPzV HP' cells are available upon customer request.

Dimensions



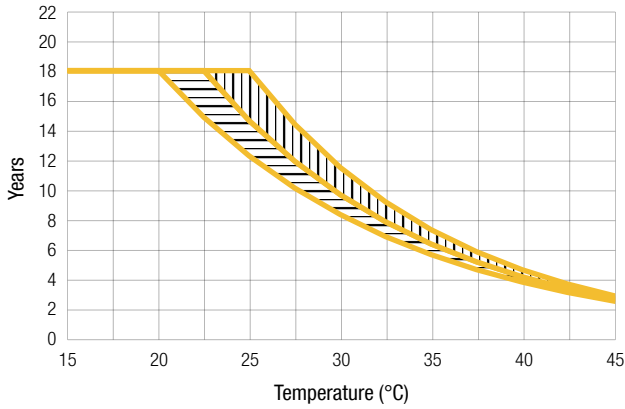
Constant Current Discharge in A (at 20°C)

End Voltage (V/cell)	Discharge Time														
	10min	15min	30min	45min	1h	2h	3h	4h	5h	6h	7h	8h	10h	12h	20h
1.60 V	2958.7	2793.9	2372.0	2037.7	1777.2	1157.3	868.9	704.0	592.9	514.2	455.2	409.0	341.0	293.1	189.4
1.65 V	2658.6	2522.2	2174.0	1896.0	1674.1	1129.8	855.6	694.8	586.1	508.7	450.5	405.0	337.8	290.5	187.7
1.70 V	2353.3	2239.1	1955.9	1729.3	1544.6	1077.8	830.9	679.1	574.9	500.0	443.3	398.8	333.0	286.5	185.4
1.75 V	2032.7	1949.1	1721.8	1539.4	1390.3	999.0	784.7	648.4	553.3	483.5	430.1	387.8	324.7	279.8	181.7
1.80 V	1690.1	1653.6	1473.0	1330.2	1213.0	897.6	716.9	597.6	514.0	452.1	404.1	365.7	308.0	266.5	174.5
1.83 V	1472.8	1464.6	1319.2	1197.4	1097.2	825.9	665.5	558.4	482.6	425.7	381.5	346.0	292.3	253.5	167.1
1.85 V	1328.2	1321.1	1215.4	1106.3	1017.0	773.6	627.0	528.7	458.3	405.3	363.8	330.4	279.7	242.9	160.8
1.87 V	1183.7	1177.7	1109.7	1013.9	934.3	717.9	585.2	495.8	431.3	382.3	343.8	312.7	265.3	230.8	153.4
1.90 V	967.6	963.0	945.0	871.7	806.9	627.3	516.5	440.7	385.3	342.9	309.3	282.0	240.2	209.6	140.5

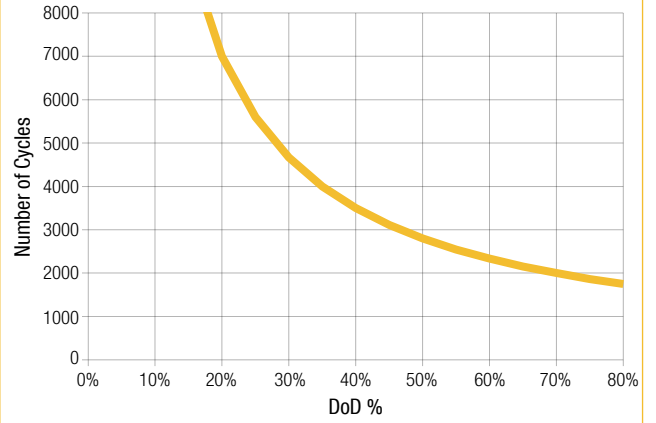
Constant Power Discharge in W/cell (at 20°C)

End Voltage (V/cell)	Discharge Time														
	10min	15min	30min	45min	1h	2h	3h	4h	5h	6h	7h	8h	10h	12h	20h
1.60 V	4675.2	4434.9	3832.6	3358.1	2982.3	2044.9	1571.6	1290.1	1096.4	957.1	851.3	767.9	644.0	556.0	362.8
1.65 V	4335.3	4124.1	3597.0	3180.2	2845.4	2000.8	1550.1	1275.5	1085.5	948.3	843.9	761.5	638.9	551.7	360.2
1.70 V	3954.8	3771.8	3317.8	2959.8	2669.1	1919.7	1509.3	1249.3	1066.8	933.7	831.9	751.3	631.0	545.2	356.4
1.75 V	3526.3	3382.6	2997.7	2695.4	2449.3	1799.5	1434.5	1197.9	1030.1	905.5	809.2	732.3	616.7	533.7	350.0
1.80 V	3039.9	2950.6	2634.8	2386.7	2184.3	1640.9	1325.0	1113.8	964.1	851.9	764.5	694.1	587.5	510.3	337.3
1.83 V	2695.2	2672.2	2398.1	2181.0	2004.0	1525.1	1240.5	1048.2	910.6	806.9	725.5	659.9	560.1	487.5	324.2
1.85 V	2457.9	2445.2	2232.2	2035.5	1875.1	1439.2	1176.0	997.6	869.0	771.4	694.7	632.5	537.8	468.7	312.8
1.87 V	2215.0	2204.5	2061.0	1883.9	1739.0	1346.0	1104.8	940.9	821.9	731.2	659.5	601.3	512.1	447.0	299.5
1.90 V	1840.0	1831.8	1778.4	1644.9	1523.5	1190.9	985.2	844.2	740.7	661.1	597.9	546.2	466.9	408.6	275.9

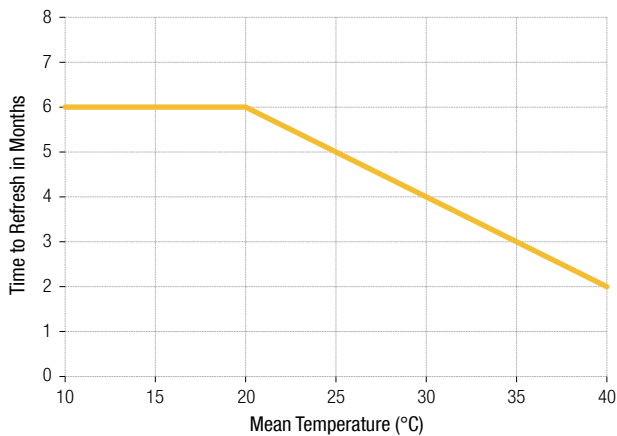
Expected Service Life vs. Operating Temperature



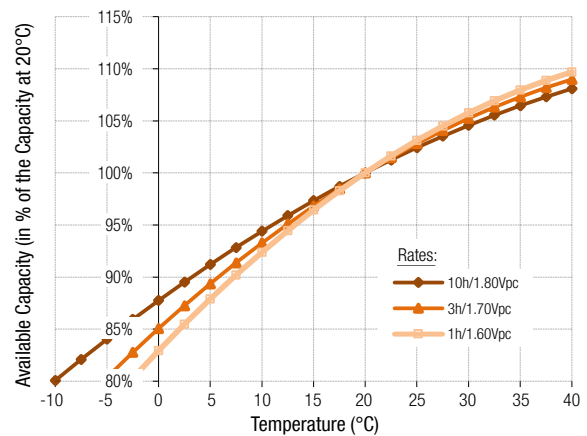
Number of Cycles vs. DOD



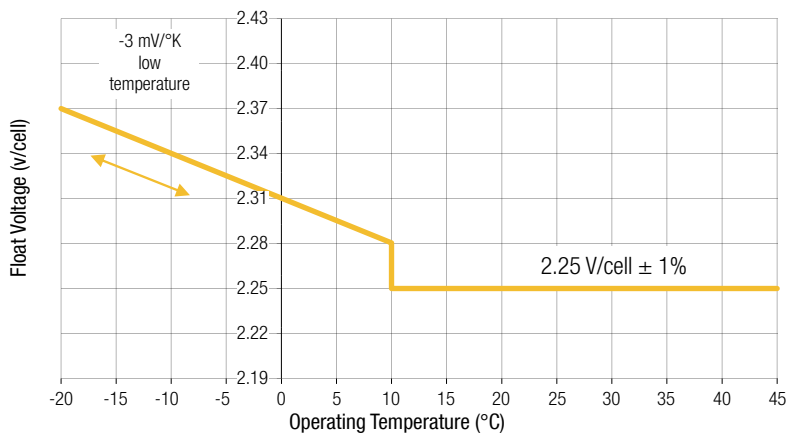
Time to Refresh vs. Temperature



Capacity vs. Temperature



Float Voltage Setting vs. Operating Temperature



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