

# UP Series

## 18 OPzV 2250

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

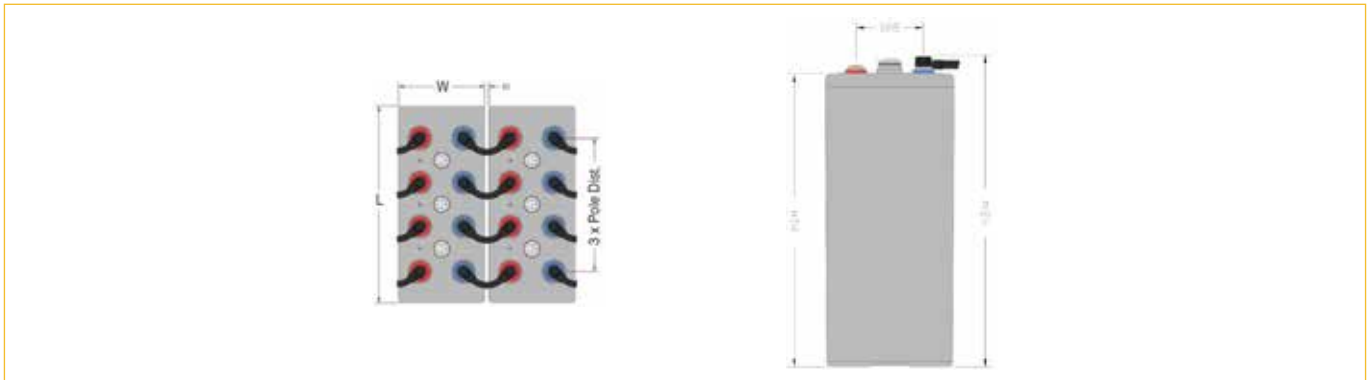
Capacity (Ah), C10 (1,80 V/cell, 20°C)	2520
Capacity (Ah), C8 (1,75 V/cell, 20°C)	2534
Number of Plates (+) per Cell	18
Floating Voltage Set Point (V/cell)	2.25
Maximum Initial Charge Current (A)	0.3 C10
Recommended Boost Charge Voltage (V/cell)	2.35
Recommended End of Discharge Voltage (10-hr rate) (V/cell)	1.80
Short Circuit Current (A)	14900
Internal Resistance (mOhm)	0.137
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	487 x 212 x 769 x 797
Weight (kg)	185.2
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



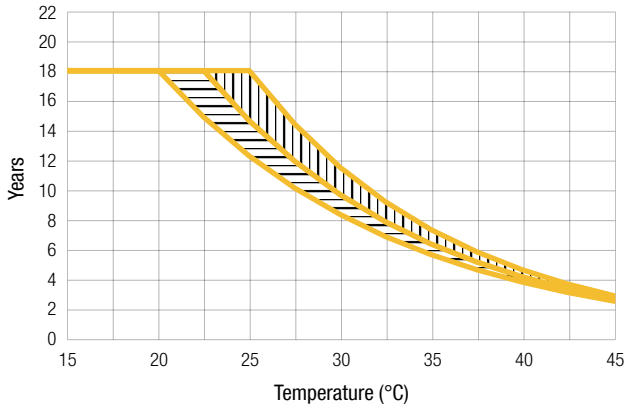
Constant Current Discharge in A (at 20°C)

End Voltage (V/cell)	Discharge Time														
	10min	15min	30min	45min	1h	2h	3h	4h	5h	6h	7h	8h	10h	12h	20h
1.60 V	2482.3	2335.5	1967.8	1682.4	1461.4	945.5	709.2	574.3	483.6	419.4	371.2	333.5	278.0	239.0	154.3
1.65 V	2232.8	2110.6	1808.9	1569.6	1380.8	924.7	698.9	567.1	478.2	415.0	367.5	330.3	275.5	236.8	153.0
1.70 V	1975.3	1877.6	1630.9	1435.0	1277.5	885.0	680.0	555.0	469.5	408.2	361.8	325.4	271.7	233.7	151.2
1.75 V	1702.7	1636.1	1437.6	1280.8	1153.0	822.7	644.1	531.3	452.7	395.4	351.5	316.8	265.1	228.4	148.2
1.80 V	1429.4	1389.0	1232.9	1109.6	1008.8	741.4	590.0	490.9	421.8	370.6	331.0	299.5	252.0	217.9	142.5
1.83 V	1246.8	1237.5	1105.7	1000.2	914.2	683.4	548.9	459.5	396.6	349.5	313.0	283.7	239.5	207.6	136.7
1.85 V	1125.2	1118.9	1019.3	925.2	848.2	641.1	517.8	435.6	377.1	333.1	298.8	271.2	229.3	199.1	131.6
1.87 V	1003.7	998.4	931.6	848.4	780.2	595.8	484.0	409.1	355.3	314.6	282.7	256.9	217.8	189.4	125.7
1.90 V	811.7	807.2	796.3	730.8	675.1	522.0	428.1	364.5	318.2	282.8	254.9	232.2	197.6	172.3	115.3

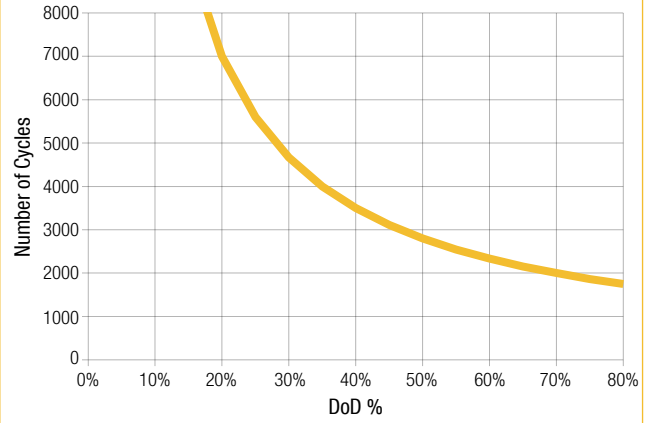
Constant Power Discharge in W/cell (at 20°C)

End Voltage (V/cell)	Discharge Time														
	10min	15min	30min	45min	1h	2h	3h	4h	5h	6h	7h	8h	10h	12h	20h
1.60 V	3920.3	3710.7	3187.1	2780.9	2461.6	1676.4	1286.2	1054.9	896.1	782.0	695.4	627.1	525.8	453.8	296.0
1.65 V	3637.3	3452.4	2995.4	2637.9	2353.0	1642.9	1269.6	1043.5	887.5	775.0	689.5	622.0	521.7	450.4	293.9
1.70 V	3323.1	3161.6	2768.4	2460.3	2211.5	1580.3	1238.3	1023.2	873.0	763.6	680.1	614.0	515.5	445.2	290.9
1.75 V	2967.0	2837.5	2504.5	2245.1	2034.1	1484.6	1179.8	983.3	844.4	741.7	662.4	599.1	504.2	436.2	285.8
1.80 V	2569.4	2480.6	2205.6	1992.2	1818.3	1356.9	1092.1	916.3	792.1	699.3	627.1	569.1	481.3	417.8	275.8
1.83 V	2281.6	2250.7	2009.6	1822.5	1670.2	1263.5	1024.3	863.6	749.2	663.3	595.9	541.7	459.4	399.6	265.3
1.85 V	2082.4	2069.7	1872.6	1702.7	1564.2	1193.5	972.1	822.8	715.7	634.7	571.1	519.7	441.5	384.5	256.2
1.87 V	1878.3	1869.0	1729.6	1577.0	1452.7	1117.6	914.4	777.1	677.8	602.3	542.8	494.5	420.8	367.1	245.5
1.90 V	1563.3	1556.0	1504.4	1378.9	1275.0	991.3	817.3	698.7	612.1	545.7	493.1	450.2	384.3	336.1	226.5

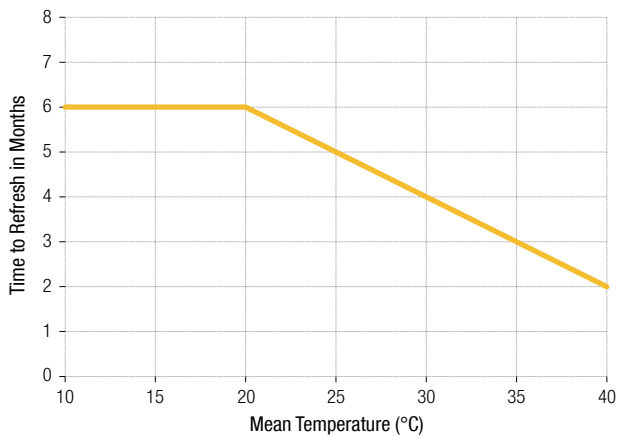
Expected Service Life vs. Operating Temperature



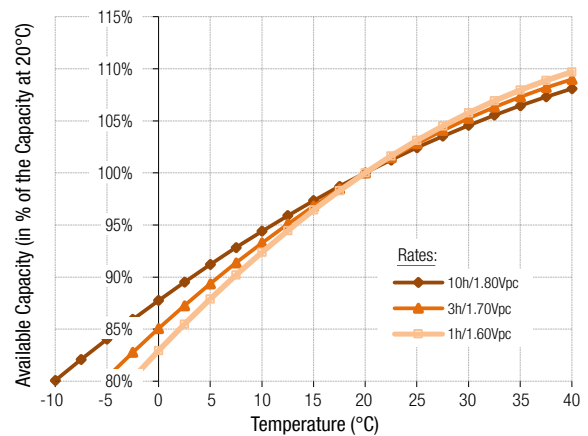
Number of Cycles vs. DOD



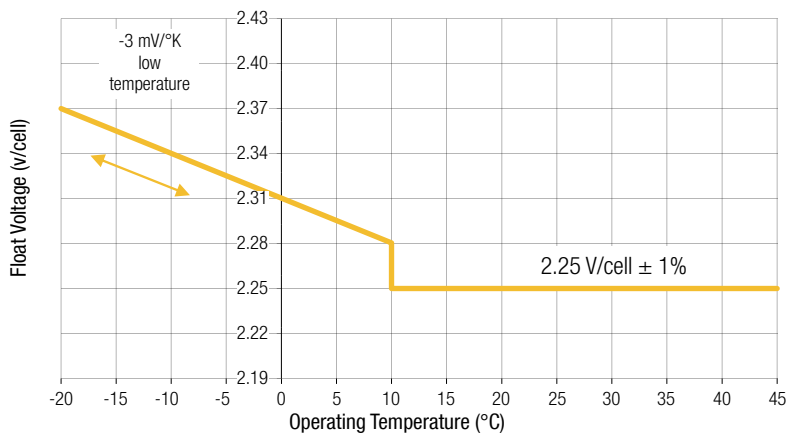
Time to Refresh vs. Temperature



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.