

UP-OPzS Series

11 OPzS 1375

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.

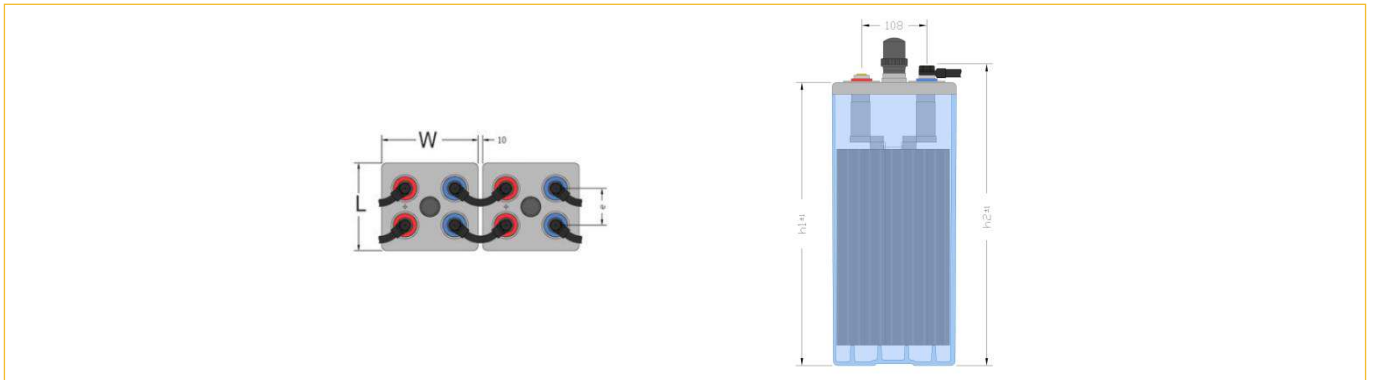
Technical Specifications

Capacity (Ah), C100 (1,85 V/cell, 20°C)	2330
Capacity (Ah), C10 (1,80 V/cell, 20°C)	1699
Number of Plates (+) per Cell	11
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)	8800
Internal Resistance (mOhm)	0.230
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) H1 = Height to the lid H2 = Height including connectors & bolts	275 x 210 x 797 x 825
Weight (kg)	Wet: 108.9 / Dry: 77.0
Type and Number of Poles	M10 / 4
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)

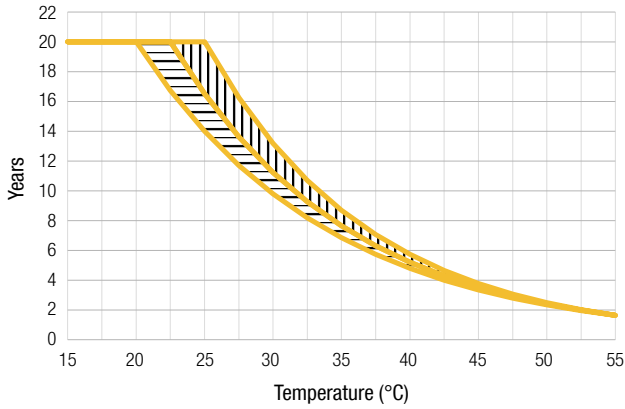
End Voltage (V/cell)	Discharge Time														
	10min	15min	30min	45min	1h	2h	3h	4h	5h	6h	7h	8h	10h	12h	20h
1.60 V	1481.1	1416.6	1239.1	1086.3	958.5	634.6	475.3	383.2	323.1	280.4	248.3	223.2	186.4	160.6	104.8
1.65 V	1320.8	1265.4	1120.2	997.1	892.2	614.2	466.0	377.4	318.9	277.1	245.6	220.9	184.7	159.1	103.9
1.70 V	1152.3	1110.9	994.5	896.1	811.9	581.1	450.1	368.0	312.4	272.1	241.6	217.6	182.1	157.1	102.8
1.75 V	968.6	955.6	862.4	784.9	719.4	533.4	422.8	350.9	300.6	263.3	234.7	211.9	178.0	153.8	101.0
1.80 V	783.8	779.8	725.3	666.0	615.6	472.0	382.5	322.3	279.2	246.7	221.3	200.9	169.9	147.6	97.8
1.83 V	673.0	665.3	641.2	591.4	549.3	428.5	352.0	299.4	261.0	231.9	208.8	190.2	161.8	141.1	94.4
1.85 V	590.5	587.8	583.3	540.9	503.7	397.0	328.9	281.5	246.6	219.8	198.5	181.2	154.7	135.3	91.2
1.87 V	525.5	521.1	510.1	489.5	457.0	363.6	303.7	261.6	230.2	206.0	186.6	170.8	146.3	128.3	87.1
1.90 V	415.2	413.5	407.3	399.0	385.2	310.7	262.2	227.8	201.9	181.7	165.3	151.9	131.0	115.4	79.4

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

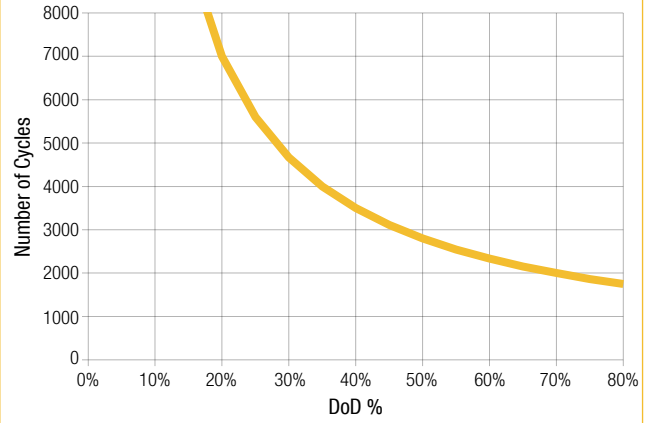
End Voltage (V/cell)	Discharge Time														
	10min	15min	30min	45min	1h	2h	3h	4h	5h	6h	7h	8h	10h	12h	20h
1.60 V	2343.0	2245.0	1987.6	1769.4	1586.6	1105.8	850.4	696.2	592.8	518.2	461.4	416.6	350.2	303.1	199.9
1.65 V	2153.4	2068.3	1845.6	1658.5	1500.9	1074.9	835.7	687.1	586.3	513.0	457.1	413.0	347.4	300.8	198.6
1.70 V	1945.6	1872.3	1682.9	1525.7	1392.7	1025.0	810.3	671.7	575.5	504.8	450.6	407.5	343.3	297.5	196.7
1.75 V	1694.0	1655.4	1500.5	1370.8	1261.3	953.1	766.9	643.5	555.8	490.0	438.8	397.9	336.2	291.9	193.7
1.80 V	1411.9	1390.2	1297.3	1193.3	1105.9	857.3	702.0	596.4	519.9	461.7	415.9	378.8	322.2	281.0	188.1
1.83 V	1233.1	1227.5	1166.5	1076.6	1001.6	787.3	651.9	558.0	489.1	436.3	394.4	360.2	307.9	269.5	182.1
1.85 V	1110.3	1105.4	1069.9	994.9	927.4	735.4	613.2	527.7	464.4	415.5	376.5	344.6	295.4	259.2	176.2
1.87 V	984.5	980.3	968.1	909.7	850.0	679.5	570.4	493.4	436.0	391.3	355.5	326.0	280.5	246.7	168.9
1.90 V	783.0	779.3	773.0	765.8	727.3	588.2	498.2	434.2	385.9	348.0	317.5	292.2	252.8	223.3	154.6

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

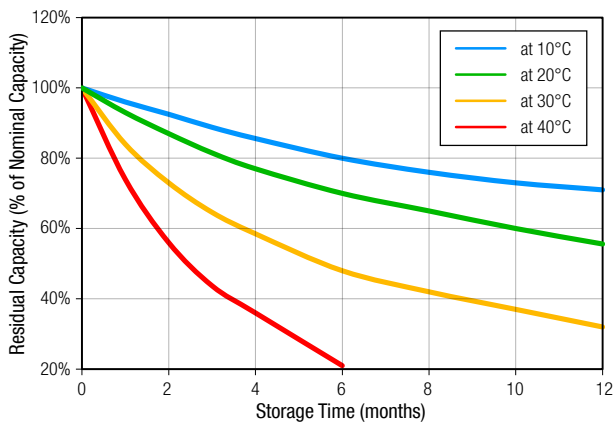
Expected Service Life vs. Operating Temperature



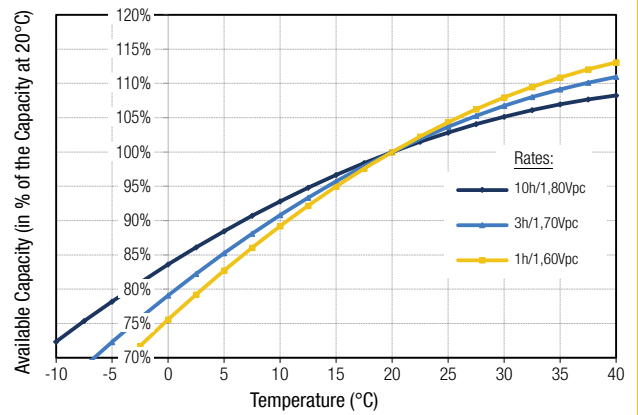
Number of Cycles vs. DOD



Self-Discharge Characteristics



Capacity vs. Temperature



Float Voltage Setting vs. Operating Temperature

