

UP-OPzS Series

9 OPzS 900

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.

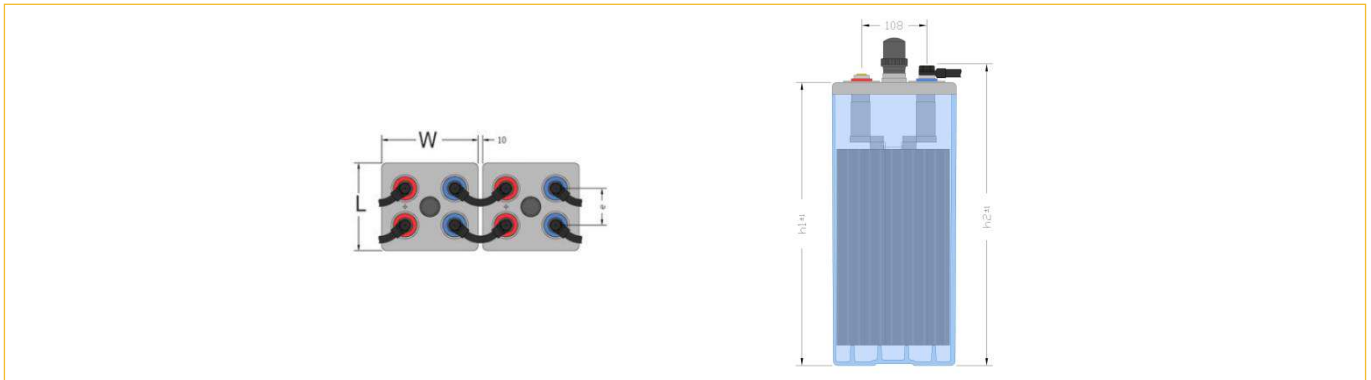
Technical Specifications

Capacity (Ah), C100 (1,85 V/cell, 20°C)	1510
Capacity (Ah), C10 (1,80 V/cell, 20°C)	1116
Number of Plates (+) per Cell	9
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)	7250
Internal Resistance (mOhm)	0.280
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	233 x 210 x 646 x 674
Weight (kg)	Wet: 73.5 / Dry: 52.3
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)

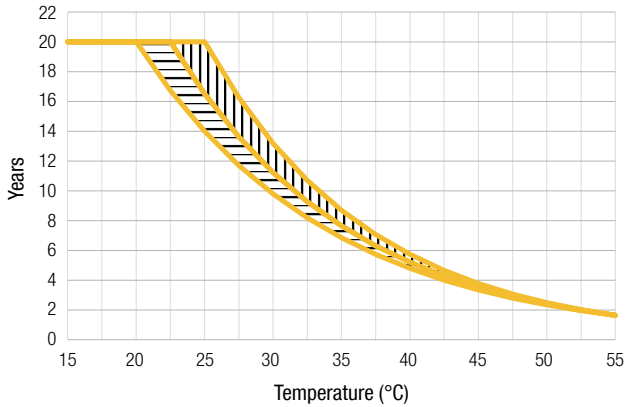
End Voltage (V/cell)	Discharge Time														
	10min	15min	30min	45min	1h	2h	3h	4h	5h	6h	7h	8h	10h	12h	20h
1.60 V	1173.3	1086.3	874.0	723.1	615.2	393.9	297.0	241.3	204.4	178.0	158.1	142.5	119.6	103.4	68.1
1.65 V	1055.3	985.7	814.3	687.9	594.1	387.7	293.5	238.8	202.4	176.4	156.7	141.3	118.6	102.6	67.7
1.70 V	932.4	876.7	741.6	638.8	560.2	377.2	288.0	235.1	199.6	174.1	154.8	139.7	117.3	101.5	67.0
1.75 V	804.4	762.0	656.8	576.3	512.9	358.0	277.9	228.5	194.8	170.4	151.7	137.1	115.3	99.9	66.1
1.80 V	662.1	642.6	562.6	501.3	452.5	327.5	259.3	215.7	185.4	163.1	145.8	132.1	111.6	96.9	64.4
1.83 V	568.5	564.1	502.2	451.0	410.2	303.5	243.1	203.8	176.2	155.6	139.6	126.9	107.6	93.7	62.7
1.85 V	514.6	510.8	460.7	415.7	379.7	285.0	230.1	194.0	168.3	149.1	134.1	122.1	103.9	90.7	61.0
1.87 V	449.1	444.6	418.3	379.2	347.7	264.4	215.3	182.5	159.0	141.3	127.4	116.2	99.2	86.8	58.7
1.90 V	360.0	357.7	346.4	322.3	297.3	229.9	189.5	162.1	142.2	127.0	115.0	105.2	90.3	79.3	54.2

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

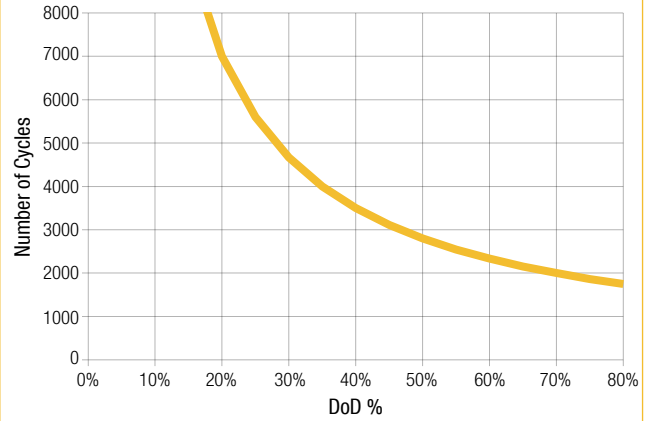
End Voltage (V/cell)	Discharge Time														
	10min	15min	30min	45min	1h	2h	3h	4h	5h	6h	7h	8h	10h	12h	20h
1.60 V	1860.7	1735.8	1434.6	1218.5	1058.5	707.3	543.4	446.3	380.8	333.4	297.4	269.0	226.8	196.9	130.9
1.65 V	1724.7	1616.9	1359.7	1170.3	1027.4	697.6	537.9	442.4	377.8	330.9	295.3	267.1	225.3	195.6	130.1
1.70 V	1570.0	1479.5	1264.3	1102.6	978.3	680.7	528.9	436.3	373.1	327.2	292.1	264.4	223.2	193.8	129.1
1.75 V	1397.6	1323.1	1146.6	1013.6	908.8	649.9	512.1	425.2	365.1	320.8	286.9	260.0	219.8	191.1	127.5
1.80 V	1189.3	1148.4	1006.9	900.9	816.7	600.9	481.0	403.5	348.9	308.2	276.6	251.3	213.3	185.9	124.6
1.83 V	1057.3	1033.7	913.1	822.1	749.7	561.5	453.9	383.1	332.9	295.1	265.7	242.1	206.2	180.2	121.5
1.85 V	954.3	935.5	846.5	765.2	700.3	530.7	431.9	366.2	319.2	283.7	256.0	233.6	199.5	174.7	118.4
1.87 V	848.6	842.9	776.8	704.8	647.4	495.9	406.3	346.2	302.9	270.0	244.1	223.1	191.1	167.7	114.3
1.90 V	680.7	675.8	662.4	608.2	561.2	436.2	361.1	310.1	272.8	244.3	221.7	203.3	174.9	154.0	105.9

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

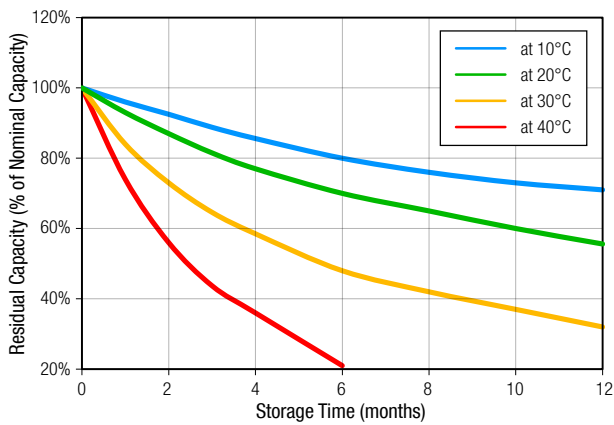
Expected Service Life vs. Operating Temperature



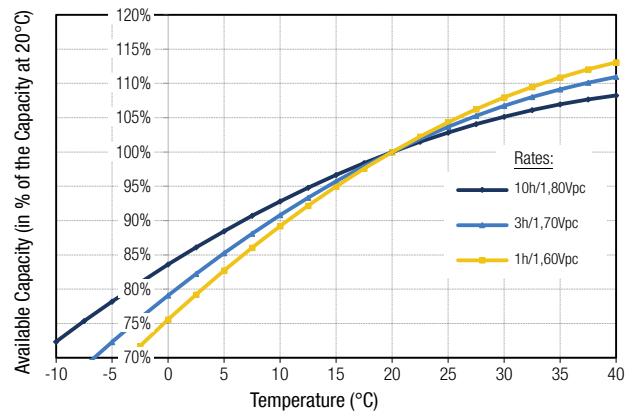
Number of Cycles vs. DOD



Self-Discharge Characteristics



Capacity vs. Temperature



Float Voltage Setting vs. Operating Temperature

