

# UP-OPzS Series

## 8 OPzS 800

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.

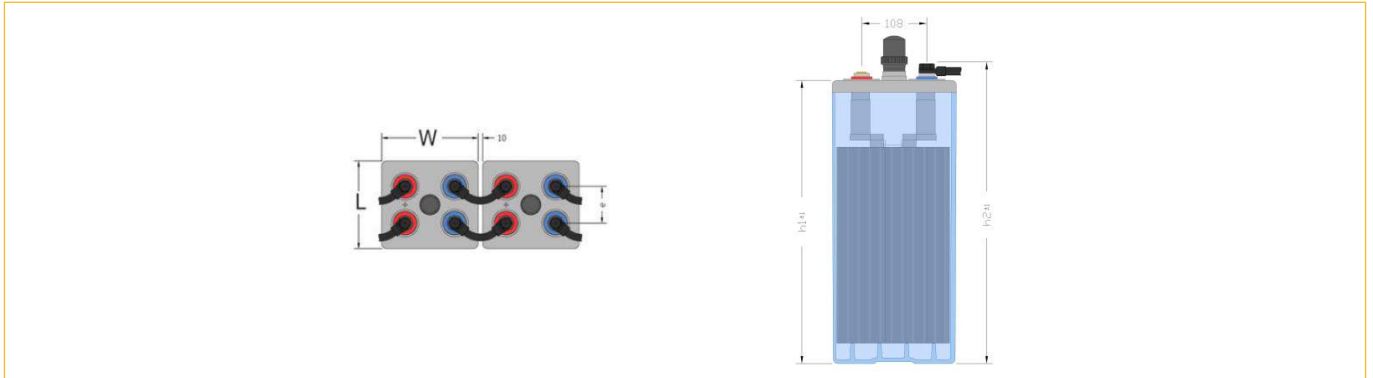
### Technical Specifications

Capacity (Ah), C100 (1,85 V/cell, 20°C)	1464
Capacity (Ah), C10 (1,80 V/cell, 20°C)	976
Number of Plates (+) per Cell	8
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)	6500
Internal Resistance (mOhm)	0.310
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	191 x 210 x 646 x 674
Weight (kg)	Wet: 63.5 / Dry: 46.7
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)

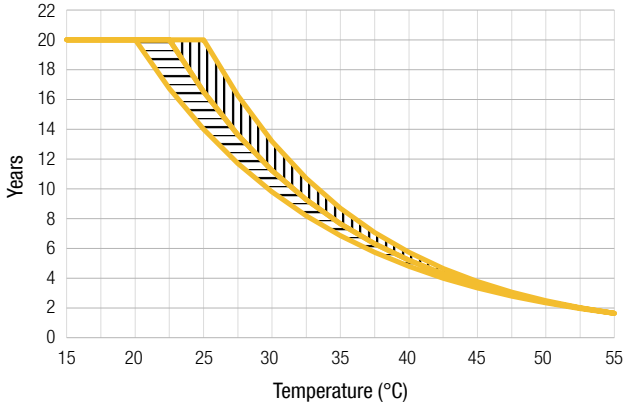
End Voltage (V/cell)	Discharge Time														
	10min	15min	30min	45min	1h	2h	3h	4h	5h	6h	7h	8h	10h	12h	20h
1.60 V	1055.3	974.6	779.0	641.9	544.6	347.1	261.2	211.9	179.2	156.0	138.4	124.7	104.5	90.3	59.4
1.65 V	949.7	885.0	726.9	611.6	526.6	341.7	258.1	209.7	177.5	154.6	137.2	123.7	103.7	89.6	59.0
1.70 V	839.2	788.0	663.0	568.8	497.3	332.7	253.3	206.4	175.1	152.6	135.6	122.2	102.6	88.7	58.4
1.75 V	725.5	685.5	587.9	514.0	456.1	316.3	244.7	200.8	170.9	149.3	132.9	120.0	100.8	87.3	57.6
1.80 V	606.0	578.5	504.1	447.8	403.0	289.7	228.5	189.7	162.8	143.0	127.8	115.7	97.6	84.7	56.2
1.83 V	522.2	511.3	450.5	403.3	365.7	268.7	214.5	179.4	154.8	136.5	122.4	111.1	94.1	81.9	54.7
1.85 V	466.1	456.4	413.3	371.8	338.8	252.5	203.1	170.8	147.9	130.9	117.6	106.9	90.9	79.3	53.2
1.87 V	410.5	407.5	375.6	339.5	310.4	234.5	190.2	160.8	139.9	124.1	111.8	101.8	86.8	75.9	51.2
1.90 V	326.1	322.5	316.4	288.8	265.7	204.1	167.6	143.0	125.2	111.6	100.9	92.3	79.0	69.4	47.2

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

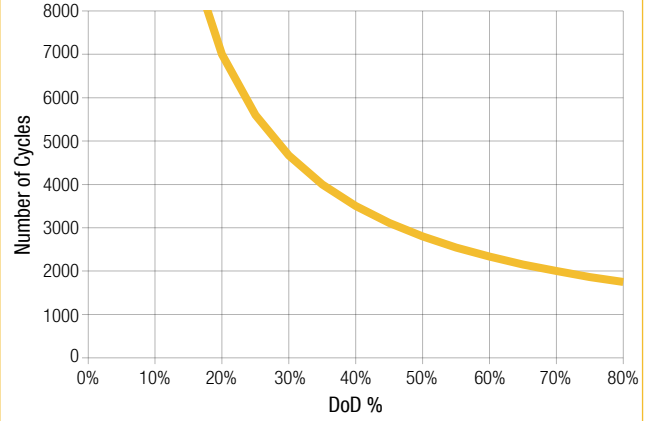
End Voltage (V/cell)	Discharge Time														
	10min	15min	30min	45min	1h	2h	3h	4h	5h	6h	7h	8h	10h	12h	20h
1.60 V	1674.1	1557.6	1281.1	1084.1	939.2	624.4	478.5	392.4	334.4	292.5	260.6	235.6	198.5	172.1	114.2
1.65 V	1552.1	1452.4	1215.3	1042.2	912.5	616.0	473.7	388.9	331.7	290.3	258.8	234.0	197.2	171.0	113.6
1.70 V	1413.8	1329.8	1131.0	983.0	869.8	601.5	465.9	383.6	327.6	287.0	256.0	231.6	195.3	169.5	112.6
1.75 V	1259.4	1190.3	1026.9	904.7	809.0	574.9	451.4	374.1	320.6	281.5	251.5	227.7	192.3	167.0	111.2
1.80 V	1086.8	1033.0	902.8	805.0	728.0	532.1	424.5	355.2	306.6	270.5	242.6	220.2	186.7	162.5	108.7
1.83 V	947.4	931.2	819.1	735.2	668.8	497.6	400.8	337.5	292.7	259.2	233.1	212.2	180.5	157.6	106.0
1.85 V	854.0	849.7	759.6	684.6	625.1	470.6	381.5	322.7	280.8	249.3	224.6	204.8	174.7	152.8	103.3
1.87 V	766.7	755.7	697.5	631.0	578.2	440.0	359.2	305.3	266.5	237.2	214.3	195.7	167.3	146.7	99.7
1.90 V	622.5	618.6	596.2	544.9	501.8	387.5	319.5	273.6	240.3	214.9	194.7	178.3	153.2	134.8	92.4

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

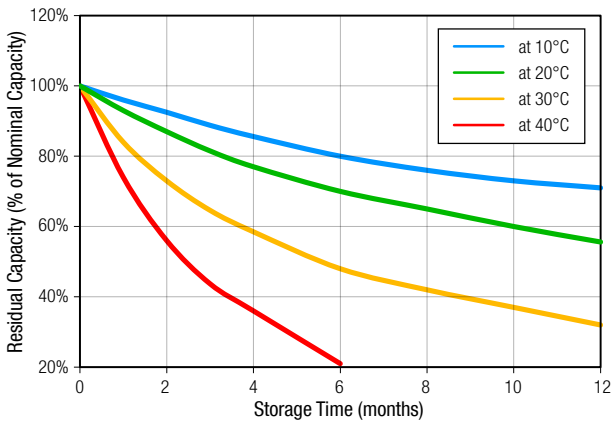
Expected Service Life vs. Operating Temperature



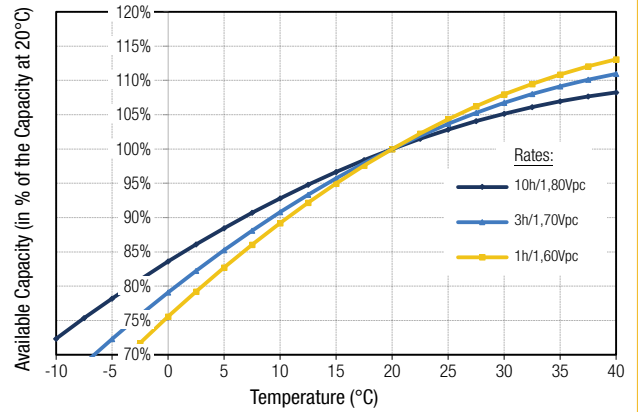
Number of Cycles vs. DOD



Self-Discharge Characteristics



Capacity vs. Temperature



Float Voltage Setting vs. Operating Temperature

