

UP-OPzS Series

7 OPzS 700

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.

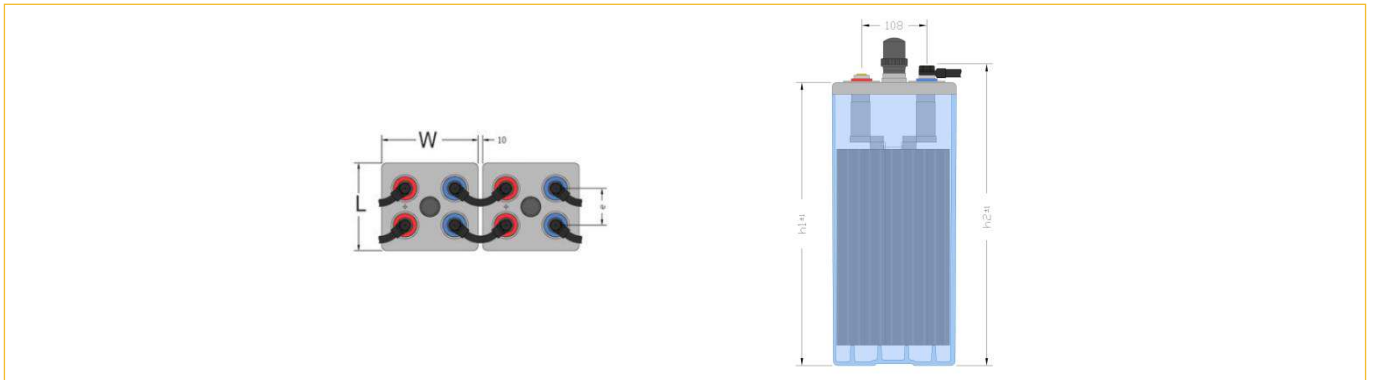
Technical Specifications

Capacity (Ah), C100 (1,85 V/cell, 20°C)	1358
Capacity (Ah), C10 (1,80 V/cell, 20°C)	905
Number of Plates (+) per Cell	7
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)	5600
Internal Resistance (mOhm)	0.360
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: 59.4 / Dry: 42.4
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)

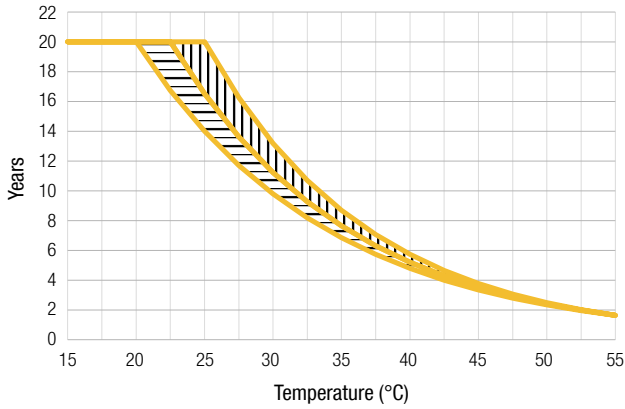
End Voltage (V/cell)	Discharge Time														
	10min	15min	30min	45min	1h	2h	3h	4h	5h	6h	7h	8h	10h	12h	20h
1.60 V	912.1	844.8	681.1	565.0	482.1	311.4	236.1	192.6	163.6	142.8	127.1	114.8	96.5	83.6	55.4
1.65 V	821.1	767.5	635.5	538.4	466.1	306.7	233.4	190.7	162.1	141.6	126.1	113.9	95.8	83.0	55.0
1.70 V	725.9	683.3	579.8	500.8	440.3	298.7	229.2	187.8	160.0	139.9	124.6	112.6	94.8	82.2	54.5
1.75 V	625.9	594.4	514.2	452.7	403.8	284.1	221.6	182.9	156.3	137.0	122.3	110.6	93.3	80.9	53.8
1.80 V	514.3	501.8	440.9	394.4	356.9	260.5	207.3	173.1	149.2	131.5	117.8	106.9	90.5	78.7	52.6
1.83 V	441.8	438.9	394.1	355.2	323.9	241.8	194.8	163.9	142.1	125.8	113.1	102.9	87.5	76.3	51.3
1.85 V	399.9	397.0	361.5	327.5	300.1	227.3	184.6	156.2	136.0	120.7	108.8	99.2	84.6	74.0	50.0
1.87 V	348.7	345.6	328.6	298.9	275.0	211.1	173.0	147.3	128.7	114.6	103.6	94.6	81.0	71.0	48.2
1.90 V	279.6	277.9	269.8	254.3	235.3	183.9	152.5	131.1	115.4	103.3	93.8	86.0	73.9	65.1	44.7

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

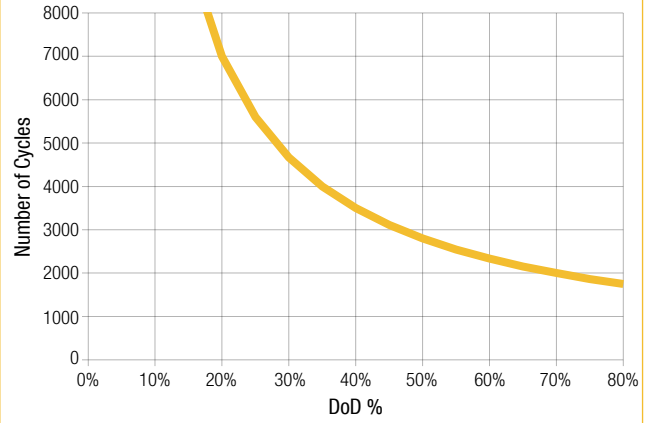
End Voltage (V/cell)	Discharge Time														
	10min	15min	30min	45min	1h	2h	3h	4h	5h	6h	7h	8h	10h	12h	20h
1.60 V	1446.3	1349.9	1118.2	952.4	829.5	559.2	432.0	356.3	305.0	267.7	239.2	216.7	183.3	159.4	106.5
1.65 V	1341.6	1258.7	1061.1	915.8	806.0	551.8	427.8	353.3	302.6	265.8	237.6	215.3	182.1	158.4	105.9
1.70 V	1222.1	1152.8	987.8	864.1	768.6	539.0	421.0	348.7	299.1	262.9	235.2	213.2	180.4	157.0	105.1
1.75 V	1088.7	1031.9	897.3	795.5	715.3	515.5	408.2	340.3	293.0	258.1	231.2	209.8	177.8	154.9	103.9
1.80 V	925.2	896.4	789.2	708.2	643.9	477.7	384.4	323.7	280.7	248.5	223.5	203.3	173.0	151.0	101.7
1.83 V	821.7	806.2	716.2	647.0	591.9	447.1	363.4	308.0	268.4	238.5	215.1	196.3	167.6	146.7	99.4
1.85 V	740.3	727.3	664.2	602.5	553.3	422.9	346.2	294.8	257.8	229.7	207.6	189.7	162.5	142.6	97.1
1.87 V	659.4	655.1	610.0	555.5	511.7	395.6	326.2	279.2	245.0	218.9	198.3	181.6	155.9	137.1	93.9
1.90 V	527.7	524.9	519.0	479.6	444.2	348.7	290.5	250.6	221.3	198.7	180.7	166.0	143.2	126.4	87.3

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

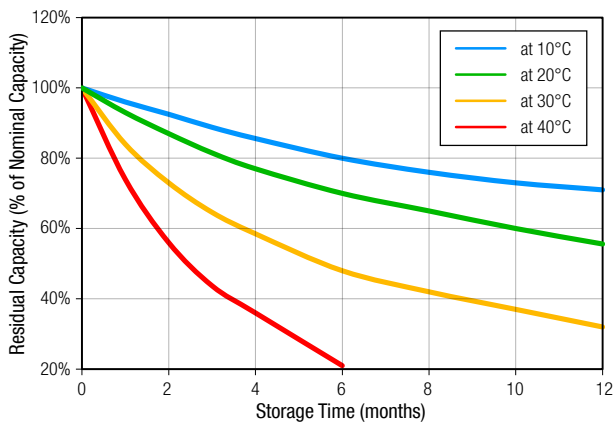
Expected Service Life vs. Operating Temperature



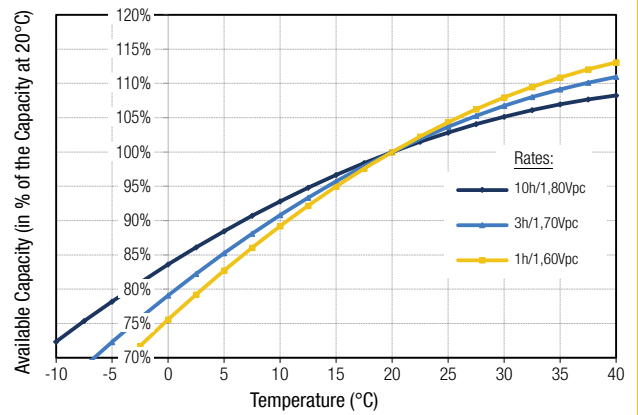
Number of Cycles vs. DOD



Self-Discharge Characteristics



Capacity vs. Temperature



Float Voltage Setting vs. Operating Temperature

