

# UP-OPzS Series

## 6 OPzS 600

O P z S C E L L



### Main Features

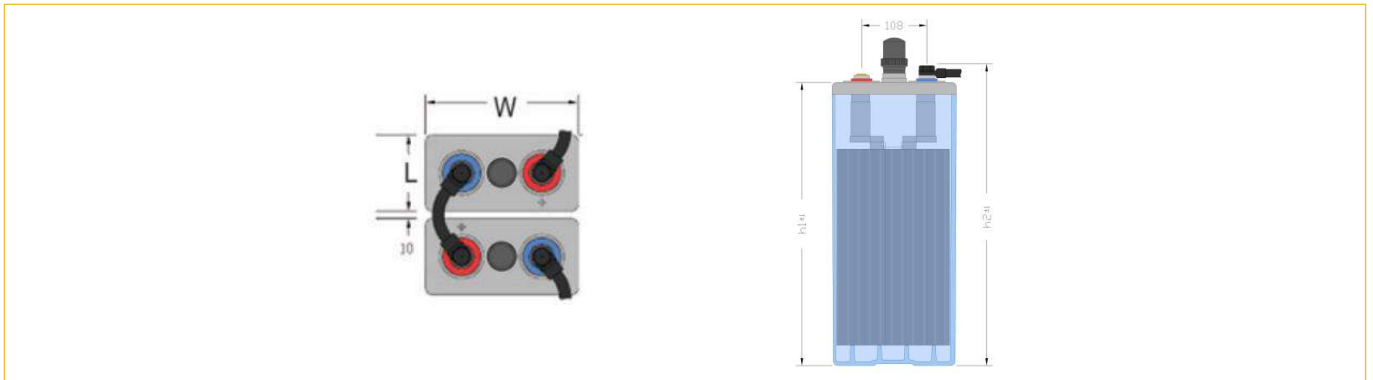
- **Design Life**  
20 years at 20°C.
- **Water Refilling**  
More than 2 years at 20°C.
- **IIEC 896-1**  
2300 cycles.
- **Self Discharge**  
Approx. 2% per month at 20°C.
- **Operating Temperature Range**  
-20°C to 55°C, recommended 10°C to 30°C.
- **Full Conformity with**  
DIN 40737-1, IIEC 896-11 and EN 50272-2.

### Technical Specifications

Capacity (Ah), C100 (1,85 V/cell, 20°C)	1095
Capacity (Ah), C10 (1,80 V/cell, 20°C)	730
Number of Plates (+) per Cell	6
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)	4700
Internal Resistance (mOhm)	0.430
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	145 x 206 x 646 x 674
Weight (kg)	Wet: 46.5 / Dry: 33.7
Type and Number of Poles	M10 / 2
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)

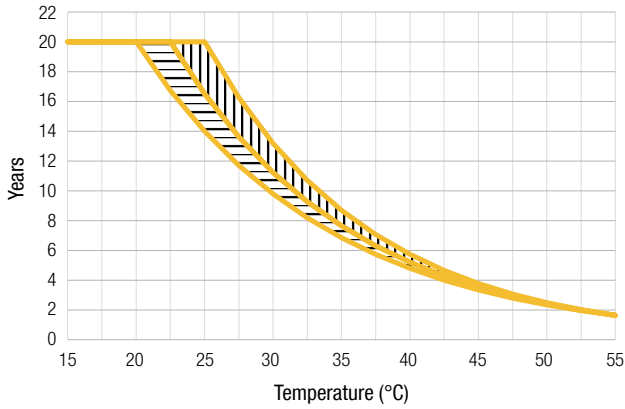
End Voltage (V/cell)	Discharge Time														
	10min	15min	30min	45min	1h	2h	3h	4h	5h	6h	7h	8h	10h	12h	20h
1.60 V	765.5	710.5	574.1	476.0	405.3	259.3	195.3	158.5	134.2	116.8	103.7	93.4	78.3	67.7	44.6
1.65 V	687.8	643.2	533.7	451.8	390.7	255.0	192.9	156.8	132.9	115.7	102.8	92.6	77.7	67.2	44.2
1.70 V	606.8	571.6	484.8	418.6	367.5	247.8	189.1	154.3	130.9	114.2	101.5	91.5	76.8	66.5	43.8
1.75 V	523.6	496.1	428.5	376.7	335.6	234.7	182.2	149.8	127.7	111.6	99.4	89.8	75.5	65.4	43.2
1.80 V	433.6	417.8	366.2	326.8	295.3	214.2	169.6	141.1	121.3	106.7	95.4	86.4	73.0	63.4	42.1
1.83 V	369.0	364.1	326.6	293.6	267.2	198.1	158.7	133.1	115.0	101.6	91.2	82.8	70.2	61.2	40.9
1.85 V	332.7	330.3	299.2	270.3	247.1	185.7	150.1	126.5	109.8	97.2	87.5	79.6	67.7	59.1	39.7
1.87 V	291.2	287.4	271.5	246.3	226.0	172.1	140.2	118.9	103.6	92.0	83.0	75.7	64.6	56.5	38.2
1.90 V	232.0	230.6	223.5	208.9	192.8	149.2	123.0	105.3	92.4	82.5	74.7	68.4	58.6	51.5	35.2

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

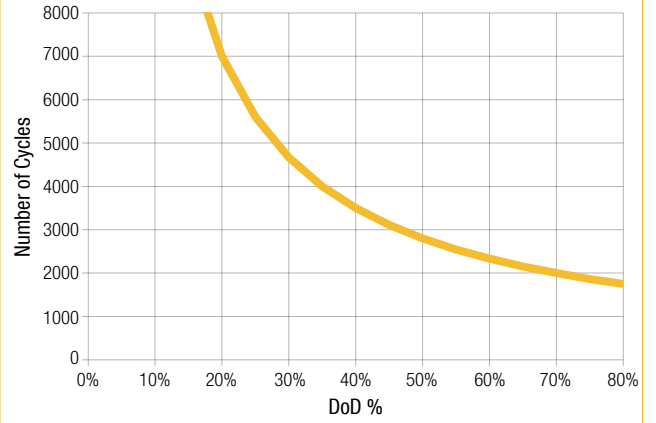
End Voltage (V/cell)	Discharge Time														
	10min	15min	30min	45min	1h	2h	3h	4h	5h	6h	7h	8h	10h	12h	20h
1.60 V	1213.9	1133.5	940.6	800.2	695.8	464.8	356.8	292.9	249.7	218.5	194.8	176.2	148.5	128.8	85.6
1.65 V	1123.6	1055.3	890.1	767.4	674.4	458.3	353.1	290.2	247.7	216.8	193.4	174.9	147.5	128.0	85.0
1.70 V	1022.2	964.3	825.9	721.7	640.9	446.6	347.0	286.1	244.5	214.3	191.3	173.1	146.0	126.8	84.3
1.75 V	909.0	861.5	747.7	661.9	594.3	425.6	335.5	278.5	239.0	210.0	187.8	170.1	143.7	124.9	83.2
1.80 V	770.0	746.0	655.6	587.1	532.7	392.6	314.4	263.7	228.0	201.4	180.8	164.2	139.3	121.4	81.3
1.83 V	684.0	671.3	593.8	535.0	488.4	366.3	296.2	250.0	217.2	192.6	173.4	157.9	134.5	117.5	79.2
1.85 V	616.9	609.2	549.9	497.4	455.7	345.7	281.5	238.7	208.1	185.0	166.8	152.2	130.0	113.8	77.1
1.87 V	548.0	544.5	504.2	457.8	420.6	322.6	264.4	225.4	197.2	175.8	158.9	145.2	124.4	109.1	74.3
1.90 V	439.4	435.8	428.9	394.2	364.0	283.1	234.4	201.3	177.2	158.7	144.0	132.0	113.6	100.0	68.7

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

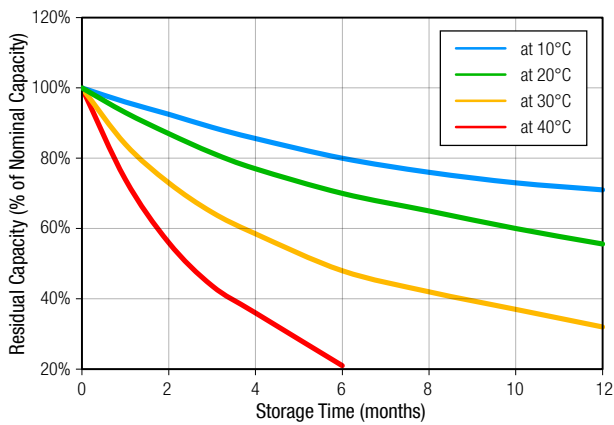
Expected Service Life vs. Operating Temperature



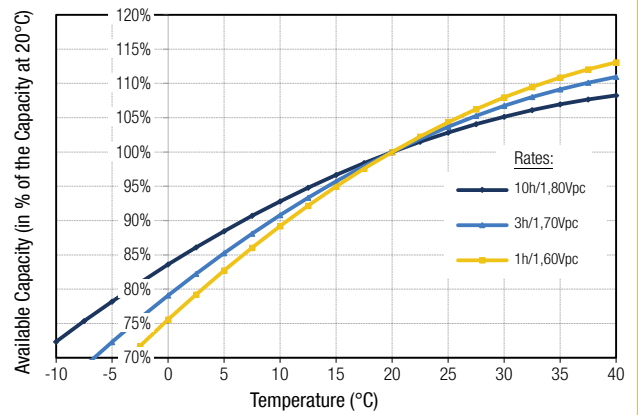
Number of Cycles vs. DOD



Self-Discharge Characteristics



Capacity vs. Temperature



Float Voltage Setting vs. Operating Temperature

