

# UP-OPzS Series

## 5 OPzS 250

O P z S C E L L



### Main Features

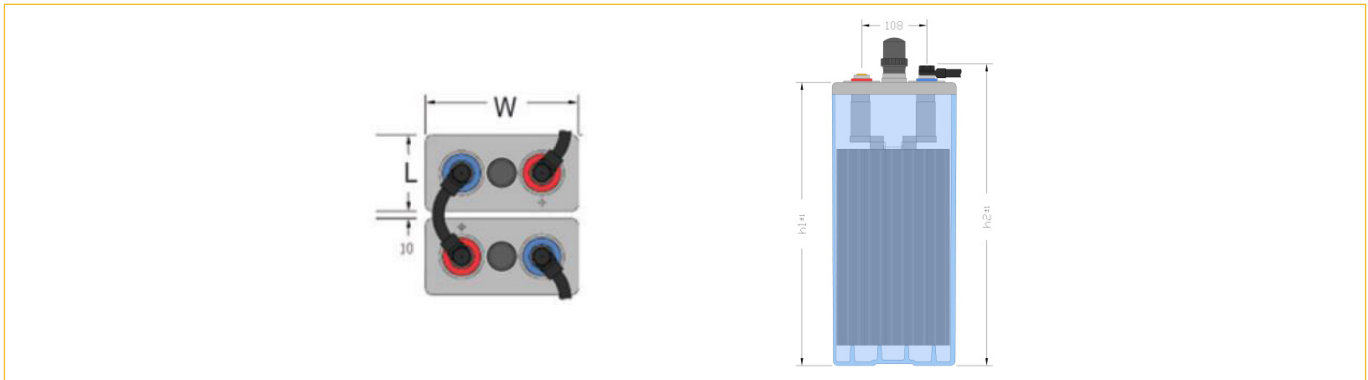
- **Design Life**  
20 years at 20°C.
- **Water Refilling**  
More than 2 years at 20°C.
- **IIEC 896-1**  
2300 cycles.
- **Self Discharge**  
Approx. 2% per month at 20°C.
- **Operating Temperature Range**  
-20°C to 55°C, recommended 10°C to 30°C.
- **Full Conformity with**  
DIN 40737-1, IIEC 896-11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

### Technical Specifications

Capacity (Ah), C100 (1,85 V/cell, 20°C)	405
Capacity (Ah), C10 (1,80 V/cell, 20°C)	270
Number of Plates (+) per Cell	5
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)	3420
Internal Resistance (mOhm)	0.590
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	124 x 206 x 355 x 383
Weight (kg)	Wet: 21.2 / Dry: 15.4
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)**

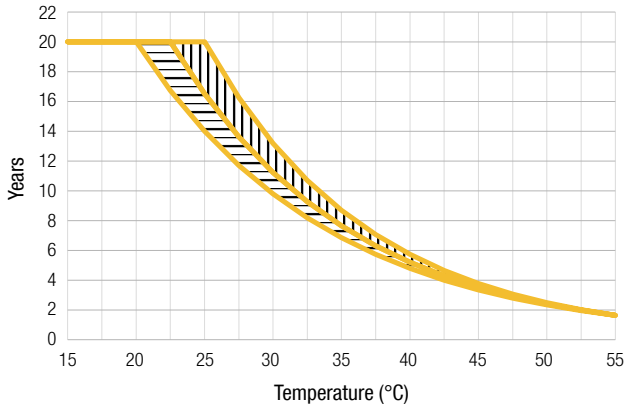
End Voltage (V/cell)	Discharge Time														
	10min	15min	30min	45min	1h	2h	3h	4h	5h	6h	7h	8h	10h	12h	20h
1.60 V	412.5	356.3	249.0	193.9	161.0	100.6	75.3	60.9	51.4	44.7	39.6	35.7	29.9	25.9	17.1
1.65 V	380.4	334.7	242.9	191.0	159.1	99.8	74.8	60.4	51.1	44.4	39.4	35.5	29.7	25.7	17.0
1.70 V	342.8	306.7	231.2	185.5	155.8	98.5	73.9	59.8	50.6	44.0	39.0	35.1	29.4	25.5	16.8
1.75 V	301.2	272.9	212.9	174.9	149.1	96.2	72.5	58.8	49.8	43.3	38.4	34.6	29.1	25.1	16.6
1.80 V	256.7	234.7	188.6	158.4	137.1	91.4	69.7	56.9	48.3	42.1	37.4	33.7	28.3	24.5	16.3
1.83 V	228.6	210.2	171.4	145.8	127.4	86.6	66.6	54.7	46.6	40.7	36.3	32.8	27.6	23.9	15.9
1.85 V	209.6	193.4	158.9	136.2	119.8	82.5	63.9	52.6	45.0	39.4	35.1	31.8	26.8	23.3	15.5
1.87 V	189.9	176.0	145.9	125.8	111.3	77.7	60.6	50.1	42.9	37.7	33.7	30.5	25.8	22.4	15.0
1.90 V	155.0	149.5	125.2	109.0	97.1	69.0	54.4	45.3	39.0	34.4	30.8	28.0	23.7	20.7	13.9

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

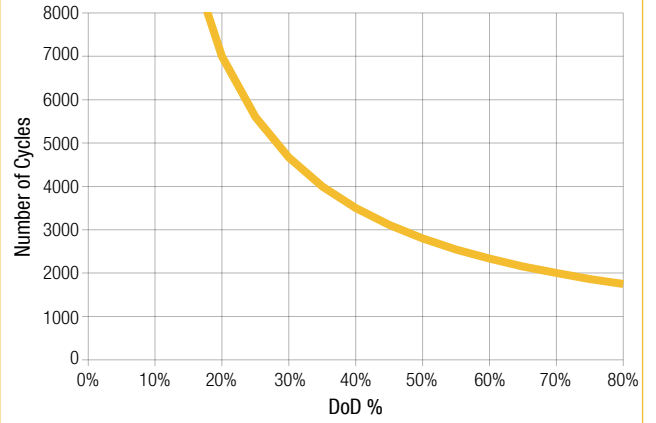
End Voltage (V/cell)	Discharge Time														
	10min	15min	30min	45min	1h	2h	3h	4h	5h	6h	7h	8h	10h	12h	20h
1.60 V	665.8	586.9	430.8	344.0	289.8	186.1	141.0	114.8	97.4	84.9	75.5	68.2	57.3	49.7	33.0
1.65 V	627.4	559.4	421.4	339.4	286.8	184.8	140.1	114.1	96.8	84.4	75.1	67.8	57.0	49.4	32.9
1.70 V	579.9	522.7	404.0	330.7	281.4	182.7	138.7	113.0	96.0	83.7	74.5	67.2	56.5	49.0	32.6
1.75 V	523.3	476.0	377.1	314.0	270.5	178.9	136.4	111.3	94.6	82.6	73.5	66.4	55.9	48.4	32.3
1.80 V	458.3	419.9	340.2	288.2	251.3	170.6	131.4	107.9	92.0	80.5	71.7	64.8	54.6	47.4	31.6
1.83 V	415.2	382.0	313.0	267.8	235.3	162.4	126.1	104.1	89.0	78.1	69.7	63.1	53.3	46.3	31.0
1.85 V	384.7	355.1	292.9	252.2	222.7	155.4	121.3	100.4	86.1	75.7	67.7	61.3	51.9	45.2	30.3
1.87 V	353.1	326.7	271.3	234.9	208.4	147.1	115.5	95.9	82.5	72.6	65.0	59.0	50.0	43.6	29.3
1.90 V	294.2	281.8	236.3	206.0	183.9	131.8	104.5	87.3	75.4	66.6	59.8	54.3	46.2	40.4	27.3

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

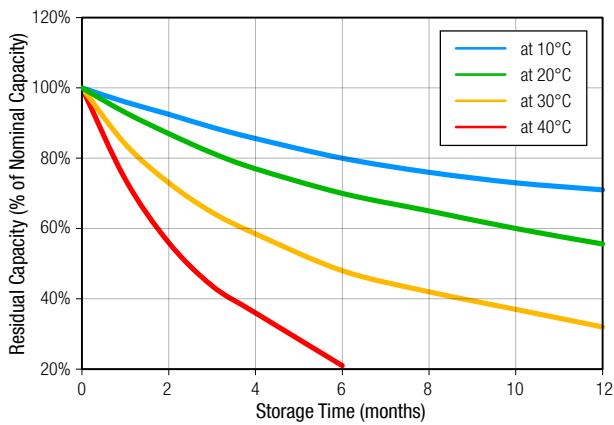
Expected Service Life vs. Operating Temperature



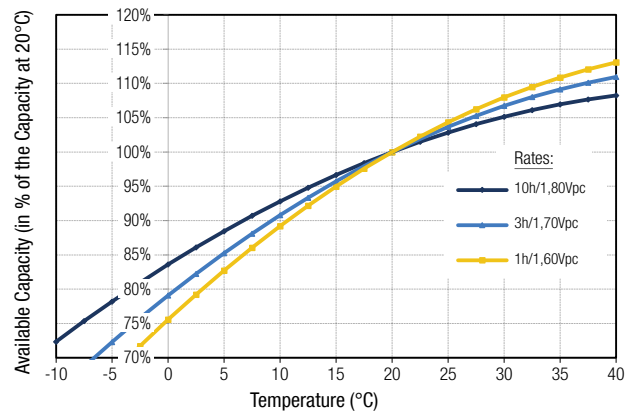
Number of Cycles vs. DOD



Self-Discharge Characteristics



Capacity vs. Temperature



Float Voltage Setting vs. Operating Temperature

