

# UP-OPzS Series

## 6 OPzS 300

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.

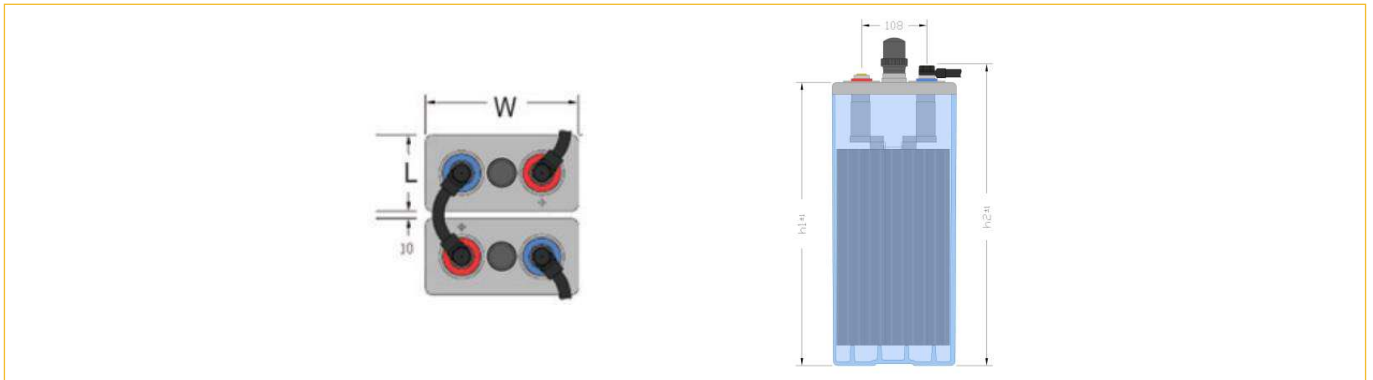
### Technical Specifications

Capacity (Ah), C100 (1,85 V/cell, 20°C)	505
Capacity (Ah), C10 (1,80 V/cell, 20°C)	337
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)	3940
Internal Resistance (mOhm)	0.510
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 355 x 383
Weight (kg)	Wet: 24.9 / Dry: 18.0
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)

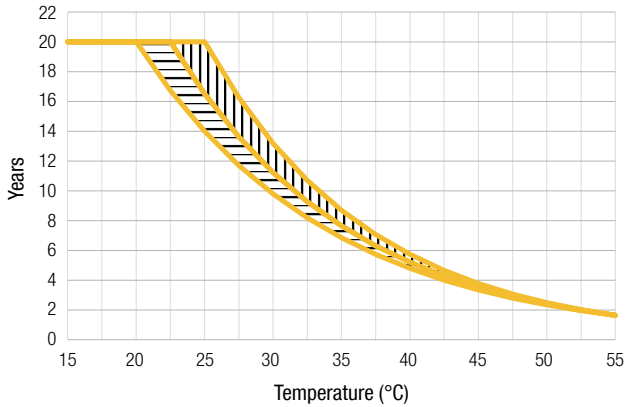
End Voltage (V/cell)	Discharge Time														
	10min	15min	30min	45min	1h	2h	3h	4h	5h	6h	7h	8h	10h	12h	20h
1.60 V	488.0	422.6	296.1	230.6	191.4	119.6	89.5	72.3	61.1	53.1	47.1	42.4	35.5	30.7	20.3
1.65 V	449.4	396.5	288.7	227.1	189.1	118.6	88.8	71.8	60.7	52.7	46.8	42.1	35.3	30.5	20.2
1.70 V	405.0	363.1	274.6	220.7	185.3	117.1	87.9	71.1	60.1	52.2	46.3	41.7	35.0	30.2	20.0
1.75 V	356.1	323.2	253.0	208.1	177.4	114.5	86.3	69.9	59.2	51.5	45.7	41.2	34.5	29.9	19.8
1.80 V	303.7	278.4	224.4	188.7	163.5	108.9	83.0	67.7	57.5	50.1	44.5	40.1	33.7	29.2	19.4
1.83 V	271.1	249.7	204.1	173.9	152.0	103.4	79.5	65.2	55.6	48.6	43.2	39.1	32.9	28.5	18.9
1.85 V	249.0	229.9	189.6	162.7	143.1	98.6	76.4	62.9	53.7	47.0	42.0	37.9	32.0	27.8	18.5
1.87 V	225.9	209.8	174.3	150.5	133.2	93.0	72.6	60.0	51.4	45.1	40.3	36.5	30.8	26.8	17.9
1.90 V	185.0	178.7	150.1	130.8	116.6	83.0	65.4	54.5	46.9	41.3	37.0	33.6	28.5	24.8	16.7

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

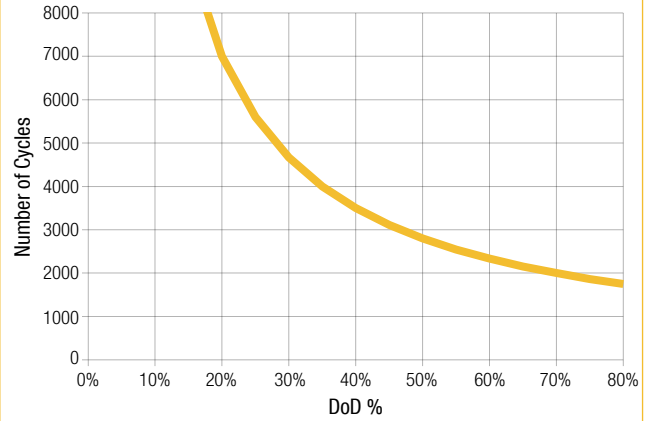
End Voltage (V/cell)	Discharge Time														
	10min	15min	30min	45min	1h	2h	3h	4h	5h	6h	7h	8h	10h	12h	20h
1.60 V	786.6	695.1	511.9	409.0	344.6	221.5	167.7	136.5	115.8	101.0	89.8	81.1	68.1	59.1	39.3
1.65 V	741.1	662.3	500.6	403.6	341.1	219.9	166.7	135.7	115.2	100.4	89.3	80.6	67.8	58.7	39.1
1.70 V	684.8	618.8	479.7	393.2	334.8	217.5	165.1	134.5	114.2	99.6	88.6	80.0	67.3	58.3	38.8
1.75 V	618.7	563.8	448.0	373.6	322.1	213.0	162.4	132.6	112.7	98.3	87.5	79.0	66.5	57.7	38.4
1.80 V	542.5	498.1	404.7	343.3	299.6	203.5	156.8	128.7	109.7	95.9	85.5	77.3	65.1	56.5	37.7
1.83 V	492.3	453.9	372.9	319.5	281.0	194.0	150.6	124.3	106.3	93.2	83.2	75.3	63.6	55.2	36.9
1.85 V	457.0	422.3	349.4	301.2	266.2	185.9	145.1	120.2	103.0	90.5	80.9	73.3	62.0	54.0	36.2
1.87 V	420.1	389.3	324.1	281.0	249.5	176.2	138.4	115.0	98.8	87.0	77.9	70.7	59.9	52.2	35.1
1.90 V	352.3	337.0	283.3	247.3	220.9	158.5	125.7	105.0	90.7	80.1	71.9	65.3	55.6	48.5	32.8

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

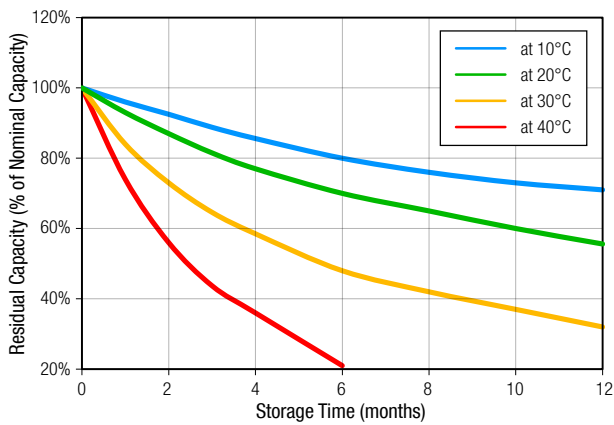
Expected Service Life vs. Operating Temperature



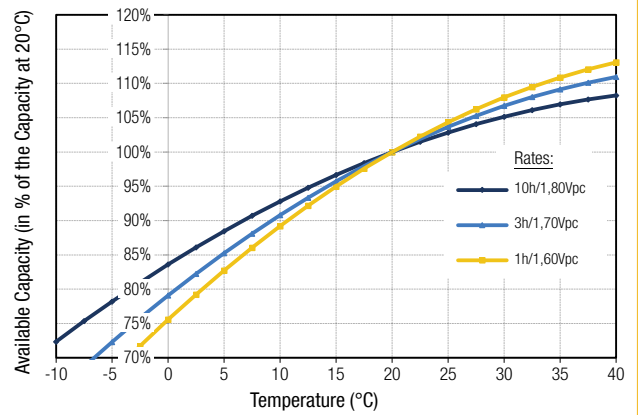
Number of Cycles vs. DOD



Self-Discharge Characteristics



Capacity vs. Temperature



Float Voltage Setting vs. Operating Temperature

