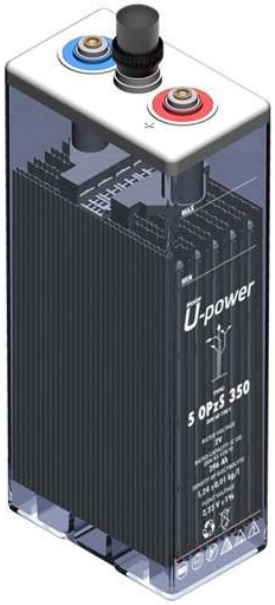
UP-OPzS Series

5 OPzS 350

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)	627
Capacity (Ah), C10 (1,80 V/cell, 20°C)	418
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)	3750
Internal Resistance (mOhm)	0.540
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 471 x 499
Weight (kg)	Wet: 28.6 / Dry: 20.7
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.*

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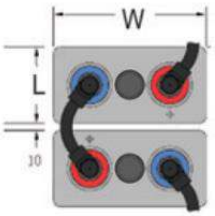
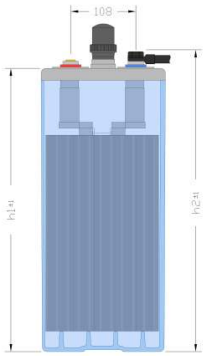
Dimensions





Constant Current Discharge in A (at 20°C)

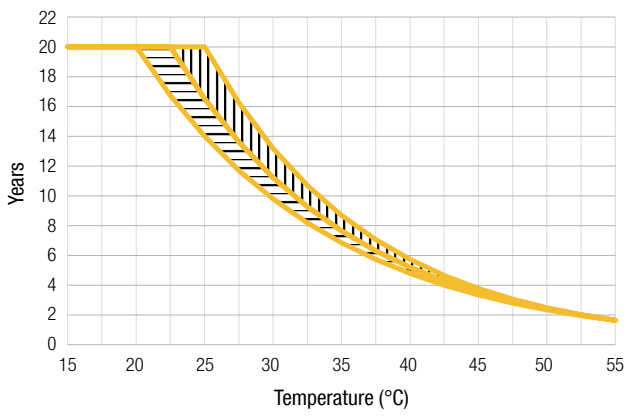
	Discharge Time														
End Voltage (V/cell)	10min	15min	30min	45min	1h	2h	3h	4h	5h	6h	7h	8h	10h	12h	20h
1.60 V	532.6	483.7	371.8	298.4	249.7	155.4	115.3	92.7	78.0	67.5	59.7	53.7	44.8	38.5	25.1
1.65 V	480.1	441.1	349.9	287.5	243.5	153.3	114.1	91.8	77.2	67.0	59.2	53.2	44.4	38.2	24.9
1.70 V	425.1	393.9	321.4	269.8	232.2	150.0	112.2	90.5	76.2	66.1	58.5	52.6	43.9	37.8	24.7
1.75 V	367.9	343.3	286.6	245.5	214.6	143.5	108.8	88.2	74.6	64.8	57.4	51.7	43.2	37.2	24.3
1.80 V	309.0	290.2	246.5	214.9	190.6	132.1	102.1	83.7	71.2	62.2	55.3	49.8	41.8	36.1	23.7
1.83 V	271.4	257.0	220.4	193.8	173.3	122.7	95.9	79.2	67.7	59.4	53.0	47.9	40.3	34.9	23.0
1.85 V	240.2	234.7	202.3	178.7	160.6	115.3	90.8	75.4	64.7	56.9	50.8	46.0	38.8	33.7	22.3
1.87 V	213.0	209.7	183.7	163.1	147.1	107.0	85.0	70.9	61.1	53.8	48.2	43.7	37.0	32.2	21.4
1.90 V	167.2	166.1	155.0	138.5	125.6	93.0	74.7	62.9	54.5	48.2	43.3	39.4	33.5	29.2	19.6

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

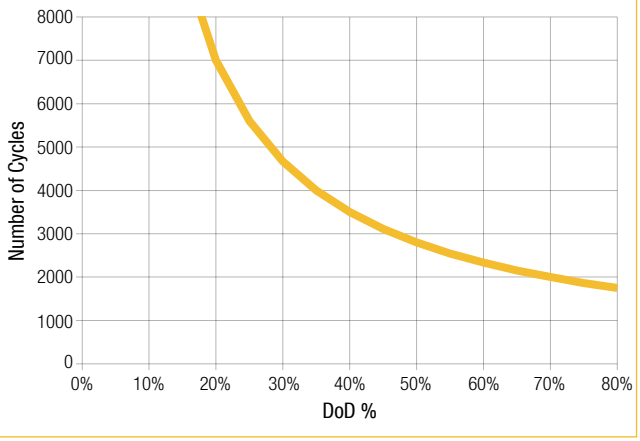
	Discharge Time														
End Voltage (V/cell)	10min	15min	30min	45min	1h	2h	3h	4h	5h	6h	7h	8h	10h	12h	20h
1.60 V	847.3	777.4	618.3	511.1	436.2	281.8	212.6	172.4	145.9	127.0	112.7	101.6	85.1	73.5	48.2
1.65 V	786.3	726.4	589.6	495.0	426.6	278.6	210.6	171.0	144.8	126.1	112.0	100.9	84.5	73.0	47.9
1.70 V	716.7	666.1	551.1	469.6	409.5	273.1	207.5	168.9	143.2	124.7	110.8	99.9	83.7	72.3	47.5
1.75 V	638.8	596.7	502.0	434.0	382.7	262.5	201.8	165.0	140.3	122.5	108.9	98.2	82.5	71.3	46.9
1.80 V	552.2	518.5	442.2	387.5	345.5	243.8	190.4	157.2	134.5	117.9	105.1	95.1	80.0	69.3	45.8
1.83 V	491.3	467.1	401.3	354.1	317.8	228.1	179.8	149.5	128.4	113.0	101.0	91.5	77.3	67.1	44.6
1.85 V	444.2	431.1	372.0	329.6	296.9	215.6	171.1	142.8	123.1	108.5	97.2	88.2	74.7	65.0	43.3
1.87 V	396.5	390.1	341.4	303.5	274.4	201.4	161.0	135.0	116.7	103.1	92.6	84.1	71.4	62.2	41.7
1.90 V	321.8	318.5	292.5	261.5	237.5	176.8	142.8	120.6	104.8	93.0	83.7	76.3	65.0	56.8	38.3

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

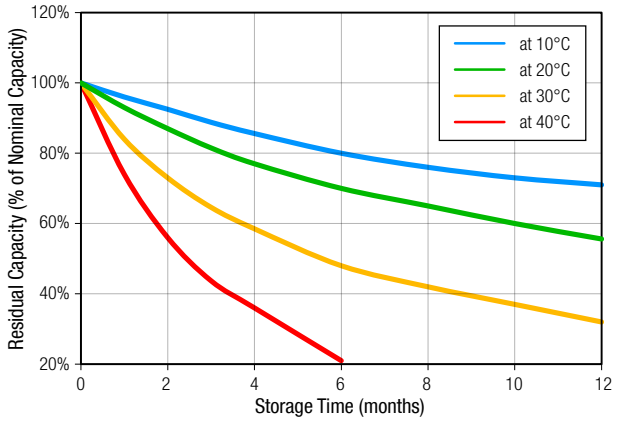
Expected Service Life vs. Operating Temperature



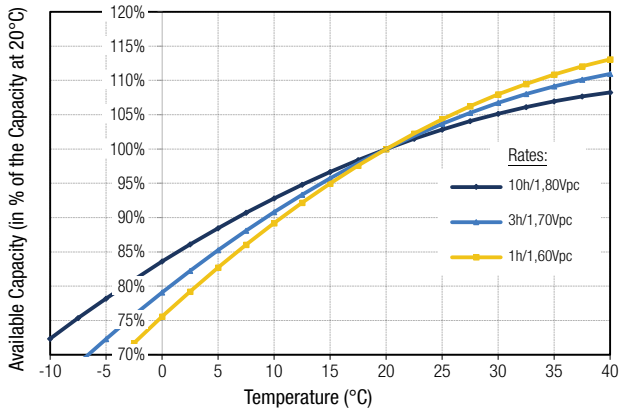
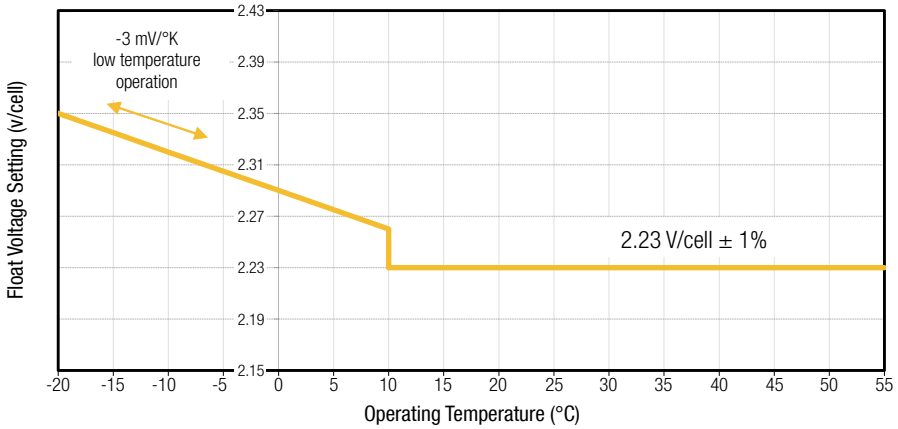
Number of Cycles vs. DOD



Self-Discharge Characteristics



Capacity vs. Temperature



Float Voltage Setting vs. Operating Temperature