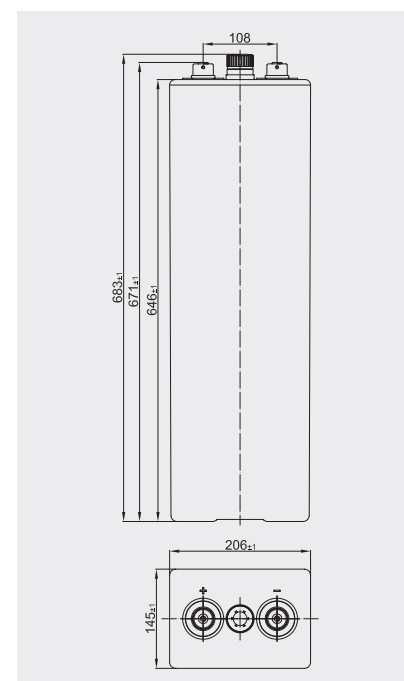


OPzS Cell 2V 5 OPzS 500

Technical Characteristics

Capacity (Ah), C ₁₀ (1.8 V/cell, 20 °C)	589
Plate Capacity (Ah), C ₁₀ (1.8 V/cell, 20 °C)	100
Number of plates (+) per cell	5
Content in Antimony of positive plates	≤1.65%
Nominal voltage (V)	2
Electrolyte density for fully charged state at 25 °C (gr/ml)	1.24
Floating voltage set point (V/cell)	2.23
Floating voltage tolerance from set point	+/-0.02 V (2.21-2.25)
Single cell floating voltage tolerance from set point	+0.1V-0.05 V (2.18-2.33)
Initial charge current (A)	50
End of charge Voltage (V/cell)	2.35 to 2.40
Recommended End of Discharge voltage for 10-hr rate (V/cell)	1.80
Recommended End of Discharge voltage for 1-hr rate (V/cell)	1.65
Short circuit current (A)	3820
Internal resistance (mOhm/cell)	0.54
Number of cycles at 60% depth of discharge	2000
Self-discharge rate per month	<2.5%
Efficiency factor (kWh)	85%
Efficiency factor (Ah)	95%
Dimensions in mm (LxWxH)	145x206x671
Weight:	
• Without electrolyte (kg)	28.8
• With electrolyte (kg)	42.0
Type and number of poles	M10 / 2



OPzS Cell 2V 5 OPzS 500

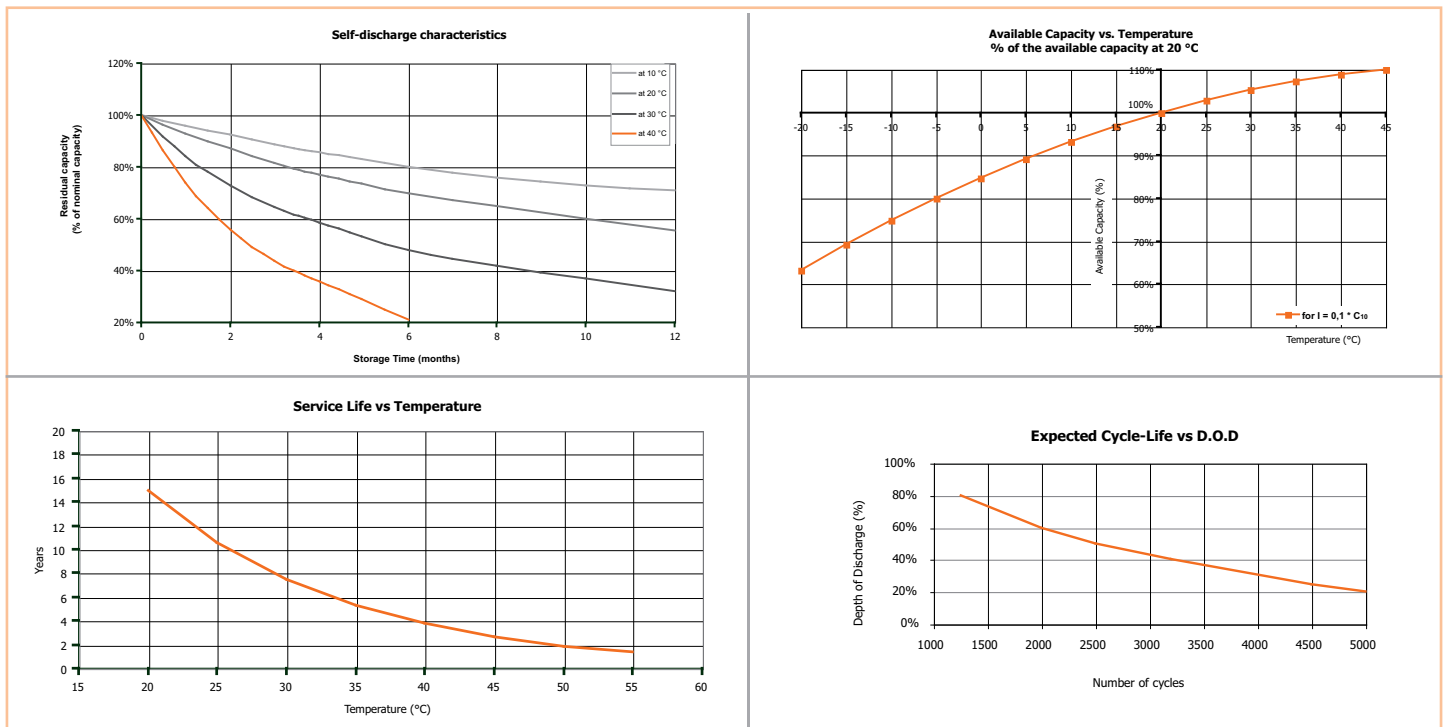
Constant Current Discharge in A/cell (at 20 °C)

Uend	Discharge Time												
	15 min	30 min	45 min	1 h	1.5 h	2 h	3 h	4 h	5 h	6 h	8 h	10 h	20 h
1.60 V	587.8	430.9	348.0	299.0	235.8	196.3	150.8	123.2	104.5	91.2	73.8	62.3	35.0
1.65 V	537.0	406.6	334.3	290.9	231.1	193.0	148.8	121.7	103.4	90.2	73.1	61.8	34.7
1.70 V	481.5	373.2	313.8	277.5	223.8	188.2	145.8	119.5	101.7	88.9	72.2	61.1	34.2
1.75 V	411.4	337.5	290.0	260.3	214.7	182.8	142.1	117.3	100.2	87.7	70.9	60.2	33.6
1.80 V	344.1	293.6	255.7	231.9	195.1	168.7	135.5	112.2	97.4	85.4	68.9	58.9	32.9
1.83 V	301.1	259.8	231.0	212.6	179.9	158.3	128.5	107.5	93.3	82.3	66.5	56.9	31.7
1.85 V	273.9	238.3	213.7	197.8	171.0	150.5	121.8	103.0	89.5	79.0	64.4	55.0	30.8
1.87 V	245.8	216.7	195.7	182.0	158.2	140.6	114.1	97.0	84.8	75.1	61.6	52.1	29.5
1.90 V	200.2	181.8	165.6	155.0	138.1	121.9	101.1	86.3	75.6	67.7	56.3	47.5	27.1

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

Uend	Discharge Time												
	15 min	30 min	45 min	1 h	1.5 h	2 h	3 h	4 h	5 h	6 h	8 h	10 h	20 h
1.60 V	969.6	743.9	612.0	532.9	423.3	357.9	277.0	229.0	195.4	171.4	139.8	117.6	66.6
1.65 V	906.2	708.3	590.9	519.6	415.4	352.1	273.5	226.2	193.3	169.5	138.5	116.6	66.0
1.70 V	832.6	659.8	559.4	497.5	403.0	343.6	268.2	222.3	190.3	167.1	136.7	115.3	65.1
1.75 V	730.3	605.0	523.2	472.0	391.4	335.3	264.0	218.9	188.4	165.0	135.0	115.2	64.2
1.80 V	625.9	533.3	466.3	424.0	358.6	312.9	253.0	210.8	183.6	161.7	131.6	113.0	63.3
1.83 V	553.9	481.4	427.0	392.2	334.8	295.8	242.4	203.5	176.9	156.8	127.2	109.7	61.5
1.85 V	510.4	444.8	398.8	369.0	319.4	282.5	232.3	196.2	171.1	150.6	123.9	106.4	59.8
1.87 V	463.5	408.9	369.5	343.8	300.1	268.0	219.1	186.0	163.2	144.7	119.6	101.7	57.8
1.90 V	381.3	346.8	316.3	296.4	264.3	234.8	195.8	167.0	146.4	131.5	110.3	93.2	53.9

Diagrams



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