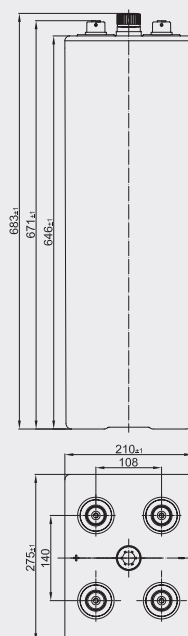


# OPzS Cell 2V 12 OPzS 1200

## Technical Characteristics

Capacity (Ah), C <sub>10</sub> (1.8 V/cell, 20 °C)	1312
Plate Capacity (Ah), C <sub>10</sub> (1.8 V/cell, 20 °C)	100
Number of plates (+) per cell	12
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)	120
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)	8630
Internal resistance (mOhm/cell)	0.24
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)	275x210x671
Weight:	
• Without electrolyte (kg)	66.2
• With electrolyte (kg)	91.3
Type and number of poles	M10 / 4



# OPzS Cell 2V 12 OPzS 1200

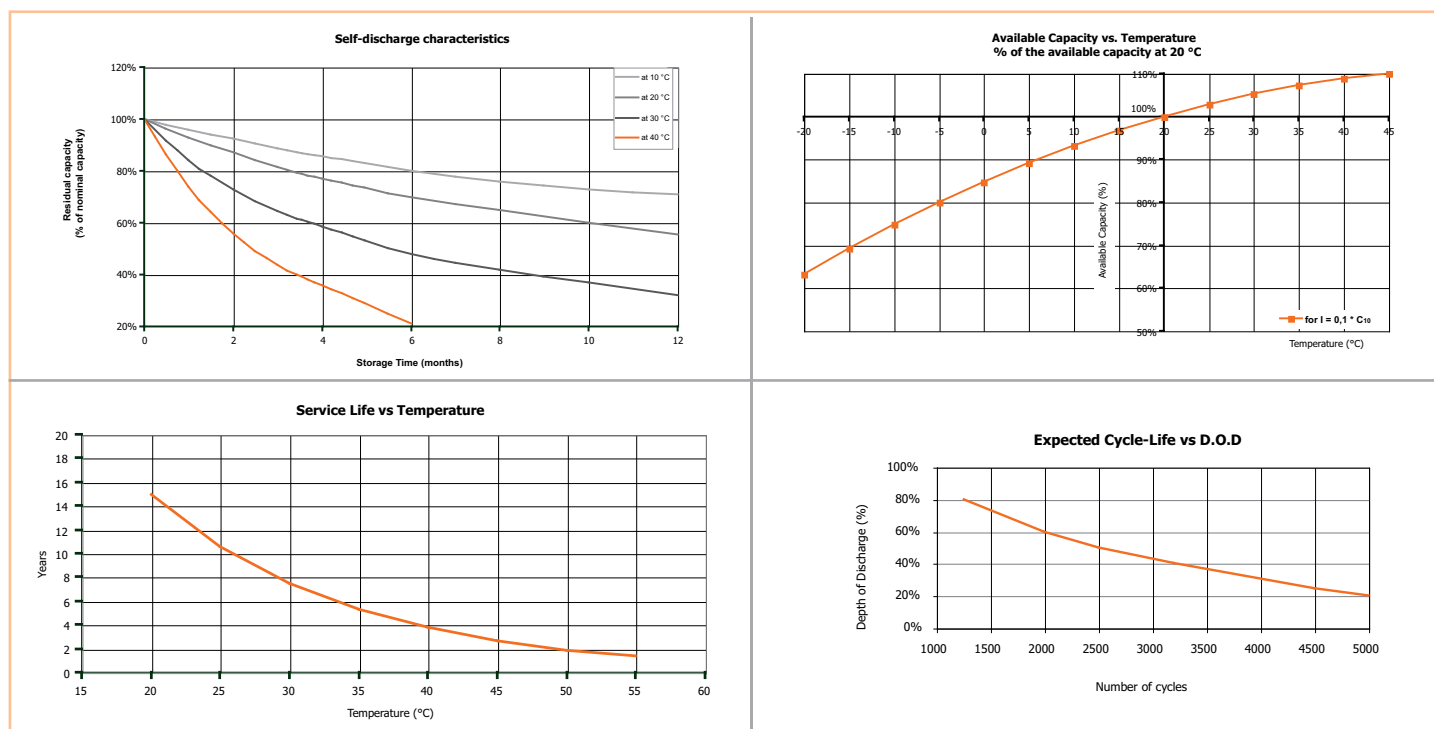
## Constant Current Discharge in A/cell (at 20 °C)

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	1253.9	1001.1	818.7	709.8	557.3	460.5	349.3	291.7	238.7	209.9	165.2	142.3	77.0
1.65 V	1138.6	934.6	780.5	686.8	545.3	452.1	344.4	288.2	236.0	207.6	163.5	140.9	76.4
1.70 V	1014.9	850.4	727.0	650.4	525.8	439.5	337.2	282.9	232.3	204.4	161.1	139.1	75.6
1.75 V	881.5	759.3	663.4	602.8	495.6	420.4	328.0	271.4	226.4	198.6	156.3	134.4	74.3
1.80 V	729.3	639.1	569.0	523.9	447.5	386.2	308.7	257.3	218.1	193.2	154.9	131.2	73.1
1.83 V	630.6	562.2	507.8	472.4	409.7	358.0	287.8	242.3	207.9	185.0	149.8	126.1	70.7
1.85 V	570.7	510.6	467.0	438.4	380.0	332.4	271.7	231.9	198.7	177.8	143.7	121.9	68.3
1.87 V	506.1	460.7	422.3	397.0	348.3	310.3	255.5	218.8	190.2	168.7	135.7	116.7	65.8
1.90 V	420.2	380.0	353.7	336.3	299.6	268.5	222.8	193.8	168.4	150.8	123.2	106.5	60.2

## 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	2061.0	1722.3	1439.3	1267.2	1005.6	842.4	644.4	534.0	447.6	396.0	312.9	270.2	146.5
1.65 V	1919.0	1628.9	1381.8	1229.6	985.2	827.8	635.5	527.6	442.6	391.8	309.8	267.8	145.4
1.70 V	1756.8	1508.5	1300.5	1170.6	952.3	805.8	622.8	518.3	435.9	386.0	305.4	264.4	144.0
1.75 V	1565.7	1365.8	1200.6	1095.7	908.3	776.3	610.0	507.9	426.8	376.1	296.7	257.6	142.0
1.80 V	1327.1	1164.1	1041.5	962.5	825.5	717.9	578.3	485.5	413.0	366.4	295.7	251.3	140.7
1.83 V	1160.7	1040.1	939.4	873.9	763.7	671.5	543.2	460.2	395.5	352.9	287.4	243.0	136.7
1.85 V	1062.1	952.5	872.4	819.7	714.2	627.2	516.8	442.5	380.1	340.5	278.1	236.4	133.5
1.87 V	953.1	867.8	797.2	750.7	659.8	590.7	489.3	421.9	367.0	326.0	262.9	227.9	129.1
1.90 V	800.1	725.0	675.6	642.6	574.3	517.2	430.8	375.1	328.2	294.0	241.8	210.4	119.5

## Diagrams



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