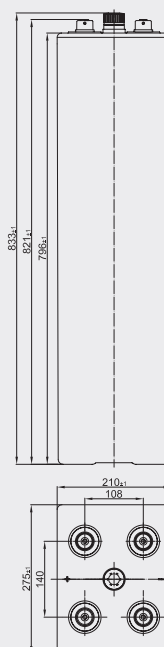


OPzS Cell 2V 12 OPzS 1500

Technical Characteristics

Capacity (Ah), C ₁₀ (1.8 V/cell, 20 °C)	1669
Plate Capacity (Ah), C ₁₀ (1.8 V/cell, 20 °C)	125
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)	150
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)	8850
Internal resistance (mOhm/cell)	0.23
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)	275x210x821
Weight:	
• Without electrolyte (kg)	81.1
• With electrolyte (kg)	115.1
Type and number of poles	M10 / 4



OPzS Cell 2V 12 OPzS 1500

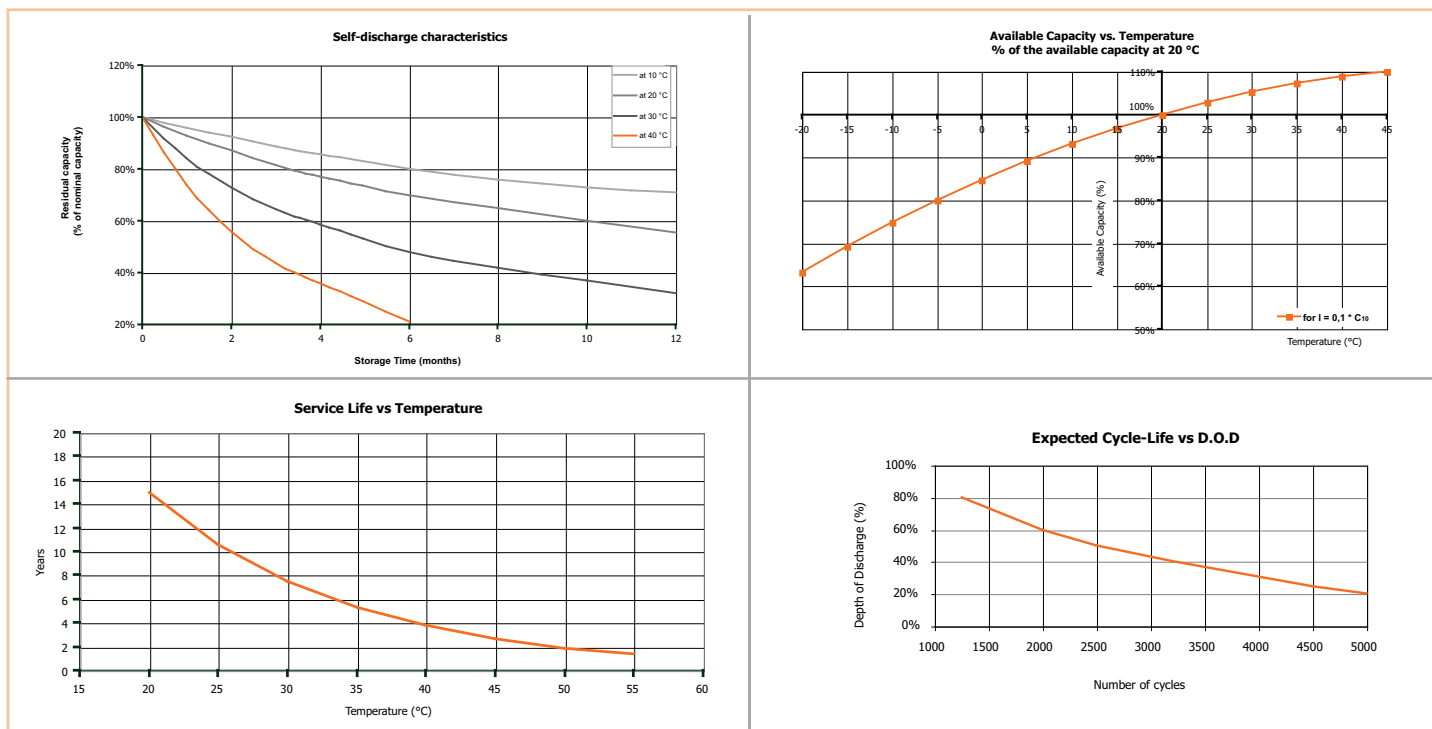
Constant Current Discharge in A/cell (at 20 °C)

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	1481.2	1216.9	1007.0	880.4	698.1	585.2	447.4	369.6	310.1	271.1	218.7	182.0	102.4
1.65 V	1333.1	1115.6	944.4	839.0	677.8	572.4	440.1	364.7	306.1	268.0	216.3	180.2	101.5
1.70 V	1177.1	1001.2	863.0	776.7	644.2	551.4	429.1	357.3	300.3	263.6	213.1	177.9	100.5
1.75 V	984.1	862.0	763.1	699.8	594.1	516.5	410.2	340.8	290.5	256.7	208.1	173.9	98.2
1.80 V	809.1	735.2	664.2	618.0	535.2	473.4	382.5	320.5	276.2	244.6	198.3	166.9	94.8
1.83 V	706.9	646.2	591.5	555.4	488.2	435.3	355.4	299.4	260.1	230.5	188.4	158.0	90.2
1.85 V	641.8	593.0	545.7	514.4	453.3	404.7	332.6	281.5	244.2	217.6	179.4	150.8	85.4
1.87 V	576.6	535.1	493.5	465.9	412.9	368.3	306.8	262.5	230.0	205.5	170.1	142.7	81.9
1.90 V	474.5	441.5	411.5	391.5	352.3	319.3	269.7	231.4	203.2	183.4	152.7	129.4	74.2

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	2417.0	2068.0	1751.5	1556.8	1254.5	1067.1	823.5	677.4	580.4	509.9	414.5	346.3	195.8
1.65 V	2240.6	1934.2	1662.1	1492.6	1221.0	1045.4	810.5	668.8	573.1	504.3	410.1	343.1	194.0
1.70 V	2037.7	1776.0	1543.3	1396.9	1165.3	1009.4	791.1	655.6	562.6	496.3	404.1	338.7	192.0
1.75 V	1747.6	1550.4	1379.9	1270.4	1088.0	951.5	763.6	637.4	546.7	485.1	396.0	331.7	188.1
1.80 V	1472.9	1338.4	1215.0	1134.3	987.2	879.8	715.5	603.6	523.0	463.8	378.4	319.6	183.1
1.83 V	1303.0	1196.5	1094.1	1026.9	910.3	815.7	671.0	569.1	494.6	439.6	362.3	305.5	174.4
1.85 V	1195.2	1105.7	1019.5	962.5	851.6	764.3	633.1	536.3	466.9	416.7	346.2	293.0	166.6
1.87 V	1086.8	1008.1	932.0	881.5	781.7	702.4	588.6	505.9	445.1	397.3	329.7	279.6	160.2
1.90 V	903.5	842.6	786.6	749.1	675.6	615.6	522.4	449.9	395.5	357.2	297.9	255.2	148.3

Diagrams



SYSTEMS SUNLIGHT S.A.

Headquarters:

23rd km. National Road Athens-Lamia
145 65 Ag. Stefanos Attica, Greece
Tel.: +30 210 6245400
Fax: +30 210 6245409

Manufacturing Plant:

Neo Olvio
67 200 Xanthi, Greece
Tel.: +30 25410 48100
Fax: +30 25410 95446



www.sunlight.gr