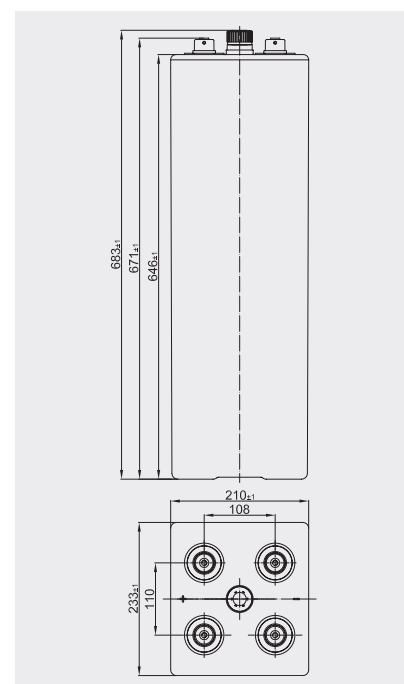


OPzS Cell 2V 9 OPzS 900

Technical Characteristics

Capacity (Ah), C ₁₀ (1.8 V/cell, 20 °C)	1031
Plate Capacity (Ah), C ₁₀ (1.8 V/cell, 20 °C)	100
Number of plates (+) per cell	9
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)	90
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)	6740
Internal resistance (mOhm/cell)	0.31
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)	233x210x671
Weight:	
• Without electrolyte (kg)	53.0
• With electrolyte (kg)	73.0
Type and number of poles	M10 / 4



OPzS Cell 2V 9 OPzS 900

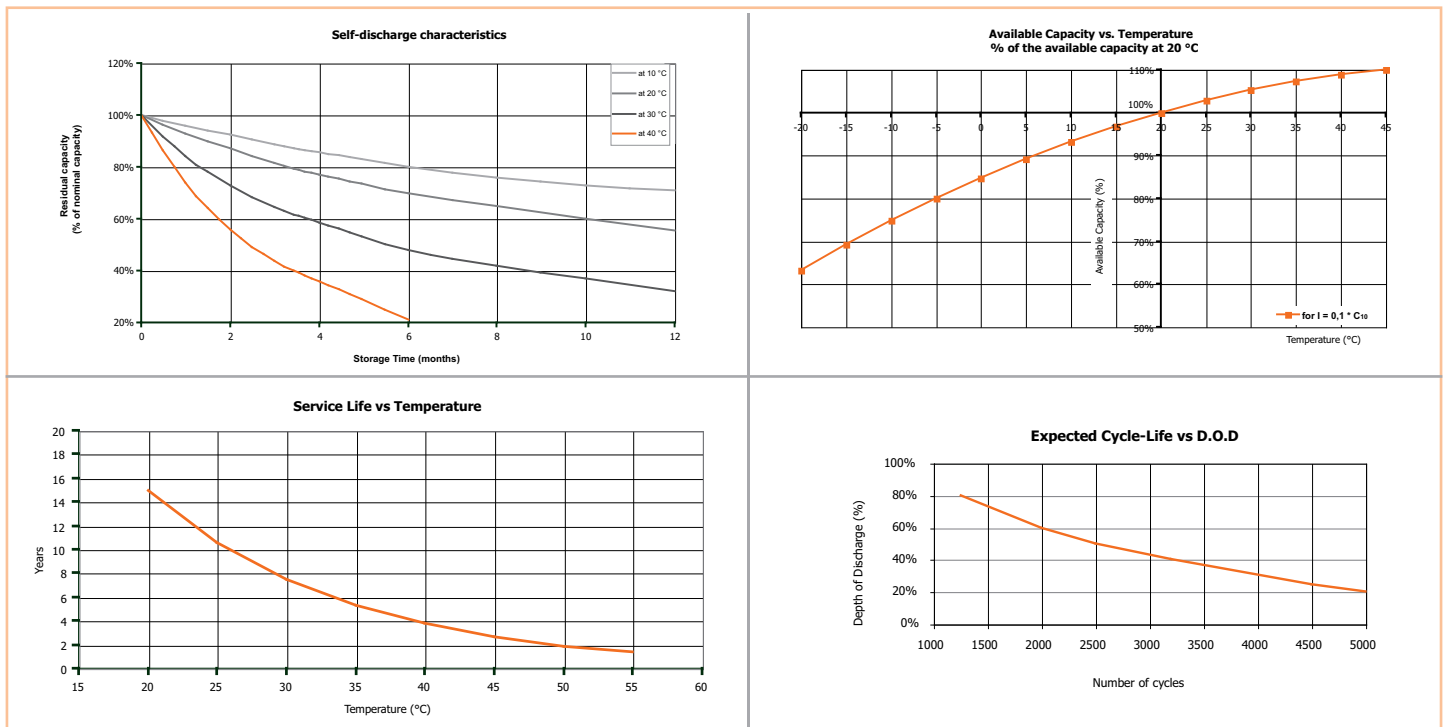
Constant Current Discharge in A/cell (at 20 °C)

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	940.0	745.8	610.5	529.6	418.0	345.0	265.0	220.2	187.4	164.4	129.1	111.4	60.3
1.65 V	856.6	700.0	584.4	514.2	409.3	339.0	261.4	217.7	185.2	162.7	127.8	110.4	59.8
1.70 V	764.8	640.0	546.7	488.8	395.6	330.0	256.0	213.9	182.2	160.3	126.0	109.0	59.3
1.75 V	664.9	571.7	499.2	453.4	372.6	316.0	248.9	208.9	177.3	155.5	124.0	105.2	58.2
1.80 V	549.9	481.9	428.5	394.3	336.6	290.8	234.8	198.8	171.1	151.3	121.8	103.1	57.1
1.83 V	475.6	423.6	382.4	355.6	308.6	269.7	218.8	186.8	163.0	145.1	117.7	99.1	55.3
1.85 V	430.4	384.8	352.0	330.5	285.9	250.0	205.9	178.7	155.9	139.1	112.7	95.5	53.5
1.87 V	381.6	347.7	318.3	298.9	262.1	233.9	194.6	169.4	148.6	131.9	105.8	91.4	51.5
1.90 V	317.4	286.7	266.5	253.0	225.3	202.0	169.8	149.5	132.7	118.1	96.9	83.8	47.2

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	1547.4	1288.2	1076.1	947.2	754.2	631.3	489.4	410.6	351.2	309.5	244.9	211.7	114.6
1.65 V	1443.9	1222.2	1036.2	921.6	739.5	620.7	482.9	406.0	347.2	306.3	242.5	209.8	113.8
1.70 V	1323.5	1135.5	978.2	880.0	716.1	605.0	473.4	399.1	341.7	301.9	239.1	207.2	112.7
1.75 V	1180.5	1028.2	903.5	824.4	683.5	582.7	463.9	390.9	334.6	294.1	232.4	201.4	111.6
1.80 V	1000.3	876.9	784.1	724.4	620.8	540.3	440.4	373.7	324.2	287.5	231.6	197.2	110.4
1.83 V	875.5	783.2	707.5	658.2	574.8	505.1	414.2	354.5	309.9	276.3	225.4	191.0	107.4
1.85 V	801.4	717.0	656.7	617.0	537.2	471.6	393.2	341.0	298.6	266.9	218.2	185.6	104.4
1.87 V	718.9	654.0	600.2	564.7	496.5	445.0	373.6	325.5	287.8	255.5	206.2	178.2	101.1
1.90 V	603.6	546.5	509.1	484.1	431.8	389.3	328.9	290.6	257.0	230.7	189.4	164.9	94.1

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