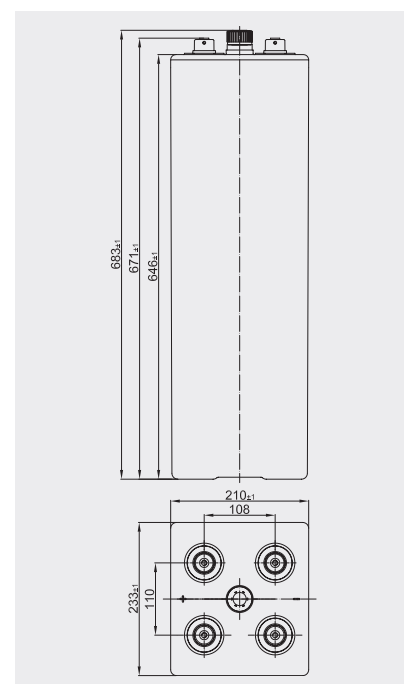


OPzS Cell 2V 10 OPzS 1000

Technical Characteristics

Capacity (Ah), C ₁₀ (1.8 V/cell, 20 °C)	1095
Plate Capacity (Ah), C ₁₀ (1.8 V/cell, 20 °C)	100
Number of plates (+) per cell	10
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)	100
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)	7530
Internal resistance (mOhm/cell)	0.28
Tolerance in cycle for 60% 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)	57.3
• With electrolyte (kg)	78.2
Type and number of poles	M10 / 4



OPzS Cell 2V 10 OPzS 1000

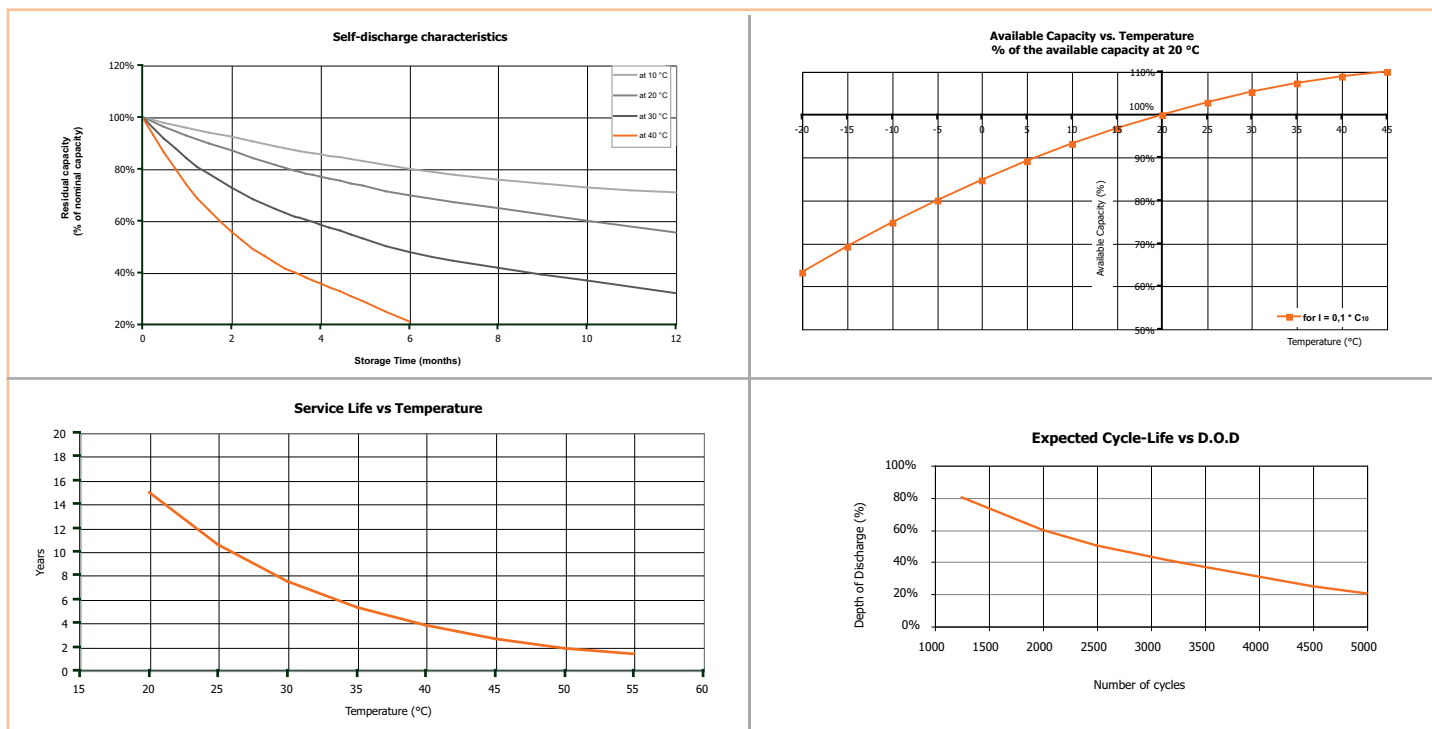
Constant Current Discharge in A/cell (at 20 °C)

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	1045.2	832.5	681.1	590.8	464.7	383.7	292.0	239.2	199.4	175.3	137.8	119.0	64.2
1.65 V	950.6	779.2	650.7	572.5	454.8	376.8	287.9	236.3	197.0	173.4	136.4	117.9	63.7
1.70 V	847.9	710.6	607.1	543.0	439.0	366.6	281.9	232.2	193.8	170.9	134.4	116.4	63.1
1.75 V	736.2	634.4	554.2	503.5	413.9	351.4	273.8	226.1	188.9	166.0	129.7	112.6	62.0
1.80 V	609.4	533.9	475.1	437.4	373.9	322.3	257.6	215.0	182.6	160.8	129.2	109.5	61.0
1.83 V	527.4	469.6	424.3	394.7	342.0	299.1	239.7	202.0	173.5	154.5	125.1	105.4	59.0
1.85 V	477.3	426.9	390.0	365.8	317.2	277.5	225.7	192.8	165.4	148.4	120.1	101.3	57.1
1.87 V	422.6	384.9	352.5	331.2	290.5	259.3	213.4	182.6	158.0	141.2	113.1	97.2	54.9
1.90 V	351.5	318.0	295.4	280.4	249.7	224.5	185.6	161.6	141.0	126.3	103.5	89.2	50.3

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	1720.4	1434.8	1198.5	1054.8	838.3	702.8	537.1	445.4	373.9	330.1	261.1	225.7	122.2
1.65 V	1603.7	1359.0	1152.2	1024.9	821.7	690.9	529.9	440.2	369.5	326.6	258.6	223.7	121.3
1.70 V	1467.7	1260.5	1086.1	977.1	794.8	672.9	519.4	432.6	363.8	321.9	255.0	220.9	120.1
1.75 V	1308.1	1140.5	1002.2	914.4	758.2	647.5	509.6	423.4	355.8	313.1	251.4	214.2	119.1
1.80 V	1108.4	972.6	869.9	803.6	689.3	599.2	483.1	405.0	345.1	305.4	247.3	209.9	117.8
1.83 V	970.2	869.2	784.6	729.7	637.4	560.8	453.9	383.7	329.8	294.0	240.1	203.6	114.8
1.85 V	888.2	796.2	728.8	684.5	595.8	523.4	430.8	368.3	317.4	284.6	231.9	197.2	111.7
1.87 V	796.9	725.4	665.6	626.3	551.2	493.9	408.3	339.0	306.4	272.1	219.7	189.7	107.5
1.90 V	668.7	606.1	564.6	536.8	479.6	432.2	359.6	313.6	273.6	246.1	201.8	175.3	99.8

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