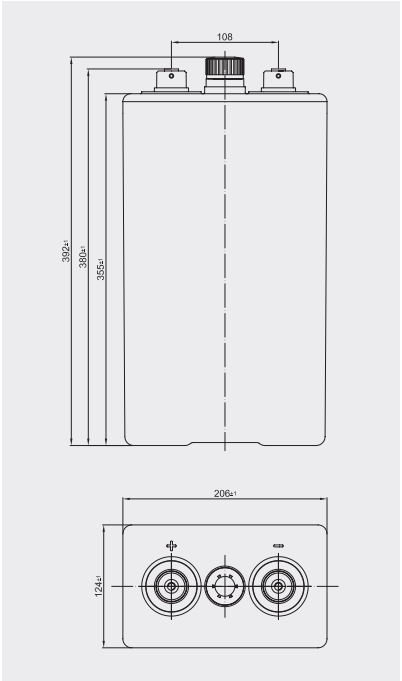
OPzS Cell 2V 5 OPzS 250

Technical Characteristics

Capacity (Ah), C_{10} (1.8 V/cell, 20 °C)	270
Plate Capacity (Ah), C_{10} (1.8 V/cell, 20 °C)	50
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)	25
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)	2775
Internal resistance (mOhm/cell)	0.75
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)	124x206x380
Weight:	
• Without electrolyte (kg)	15.4
• With electrolyte (kg)	21.4
Type and number of poles	M10 / 2



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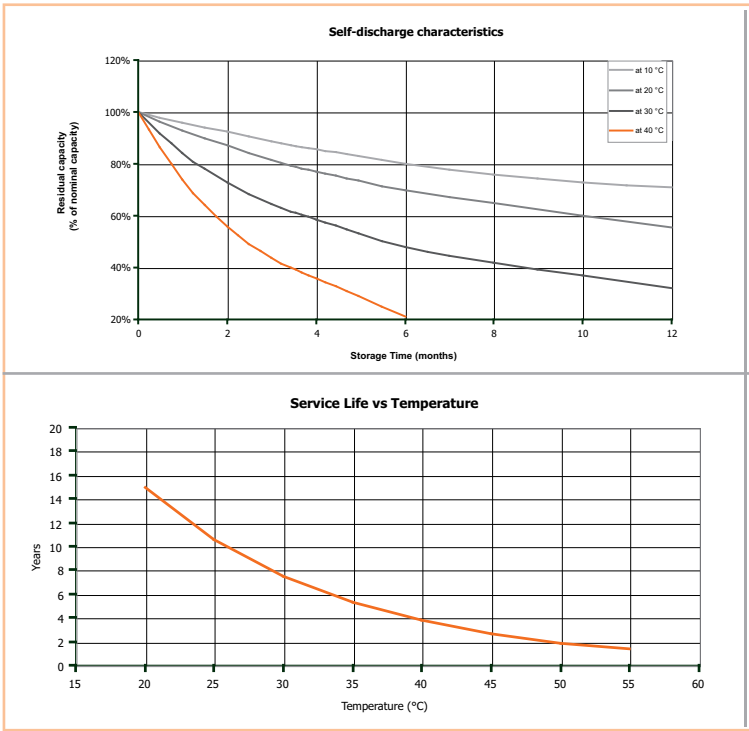
Constant Current Discharge in A/cell (at 20 °C)

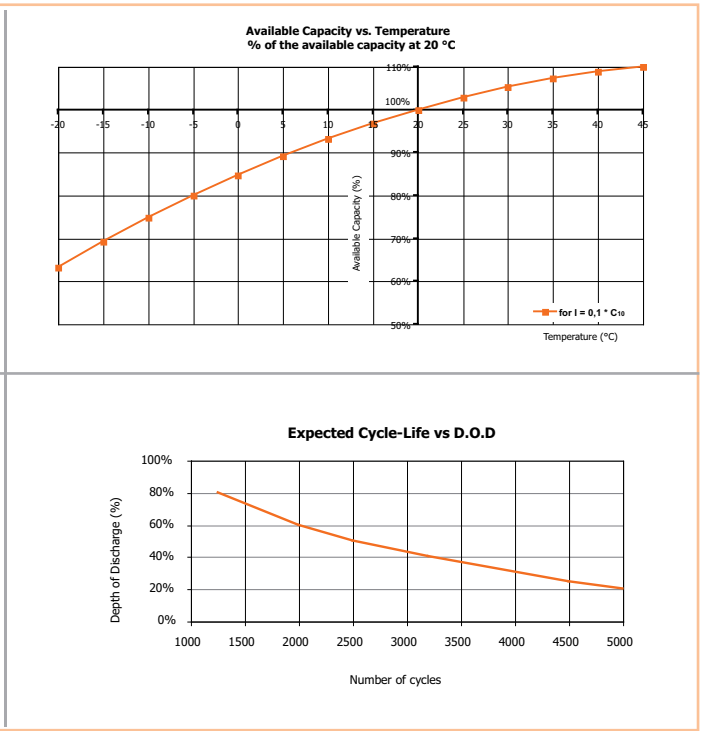
	Discharge Time												
Uend	15 min	30 min	45 min	1 h	1.5 h	2 h	3 h	4 h	5 h	6 h	8 h	10 h	20 h
1.60 V	340.1	232.7	178.4	147.7	112.1	92.4	70.1	57.3	48.3	42.3	33.6	28.7	16.2
1.65 V	317.8	224.7	173.9	144.9	110.4	91.2	69.3	56.8	47.8	41.9	33.3	28.5	16.0
1.70 V	290.1	212.3	166.8	140.6	107.9	89.4	68.2	55.9	47.1	41.4	32.9	28.2	15.9
1.75 V	260.2	193.5	155.1	132.7	103.9	86.2	65.8	54.6	46.1	40.6	32.3	27.7	15.6
1.80 V	216.5	168.8	138.7	120.7	95.9	80.9	62.9	52.4	44.4	39.4	31.5	27.0	15.2
1.83 V	184.8	148.4	124.4	109.8	88.9	76.2	59.7	50.0	42.6	37.9	30.5	26.2	14.8
1.85 V	164.4	134.8	113.8	101.0	83.4	72.3	57.1	48.1	41.4	36.9	29.6	25.6	14.5
1.87 V	143.9	120.1	103.3	92.9	77.9	68.7	54.7	45.8	39.5	35.3	28.6	24.7	14.1
1.90 V	113.6	100.3	88.4	80.9	68.4	60.5	49.3	42.1	36.3	32.6	26.5	23.0	13.0

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

	Discharge Time												
Uend	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	570.6	409.4	317.7	265.4	203.4	169.4	129.5	107.4	90.8	79.8	63.7	54.7	30.8
1.65 V	540.5	396.9	310.4	260.7	200.3	167.1	128.0	106.3	89.8	79.1	63.1	54.2	30.6
1.70 V	502.2	377.2	298.8	253.3	196.0	164.0	126.0	104.8	88.5	78.1	62.3	53.6	30.3
1.75 V	462.3	348.5	280.4	240.4	189.9	159.0	123.0	101.9	87.0	76.9	61.6	53.0	29.9
1.80 V	393.7	307.4	254.2	222.2	176.8	150.9	117.9	98.7	84.2	74.7	60.2	51.6	29.4
1.83 V	340.1	274.4	230.4	203.5	165.8	142.7	112.8	95.0	81.2	72.4	58.7	50.8	28.8
1.85 V	306.2	251.1	212.5	188.8	156.7	136.6	108.6	92.0	79.2	70.8	57.2	49.6	28.3
1.87 V	270.4	226.7	195.3	175.8	147.6	131.2	105.3	88.4	76.1	68.2	55.5	48.4	27.6
1.90 V	216.8	192.1	169.2	154.7	131.4	116.3	95.6	81.7	70.6	63.6	51.8	45.1	25.9

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

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www.sunlight.gr