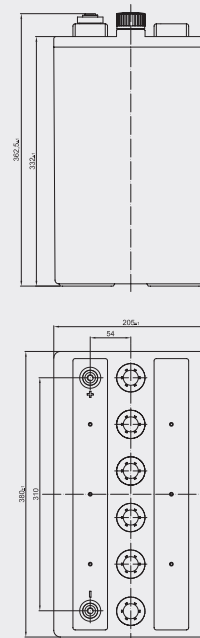


OPzS Monoblock 12V 3 OPzS 150

Technical Characteristics

Capacity (Ah), C ₁₀ (1.8 V/cell, 20 °C)	154
Plate Capacity (Ah), C ₁₀ (1.8 V/cell, 20 °C)	50
Number of plates (+) per cell	3
Content in Antimony of positive plates	≤1.65%
Nominal voltage (V)	12
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)	15
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)	1728
Internal resistance (mOhm/cell)	1.20
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)	380x205x363
Weight:	
• Without electrolyte (kg)	53.0
• With electrolyte (kg)	69.8
Type and number of poles	M10 / 2



OPzS Monoblock 12V 3 OPzS 150

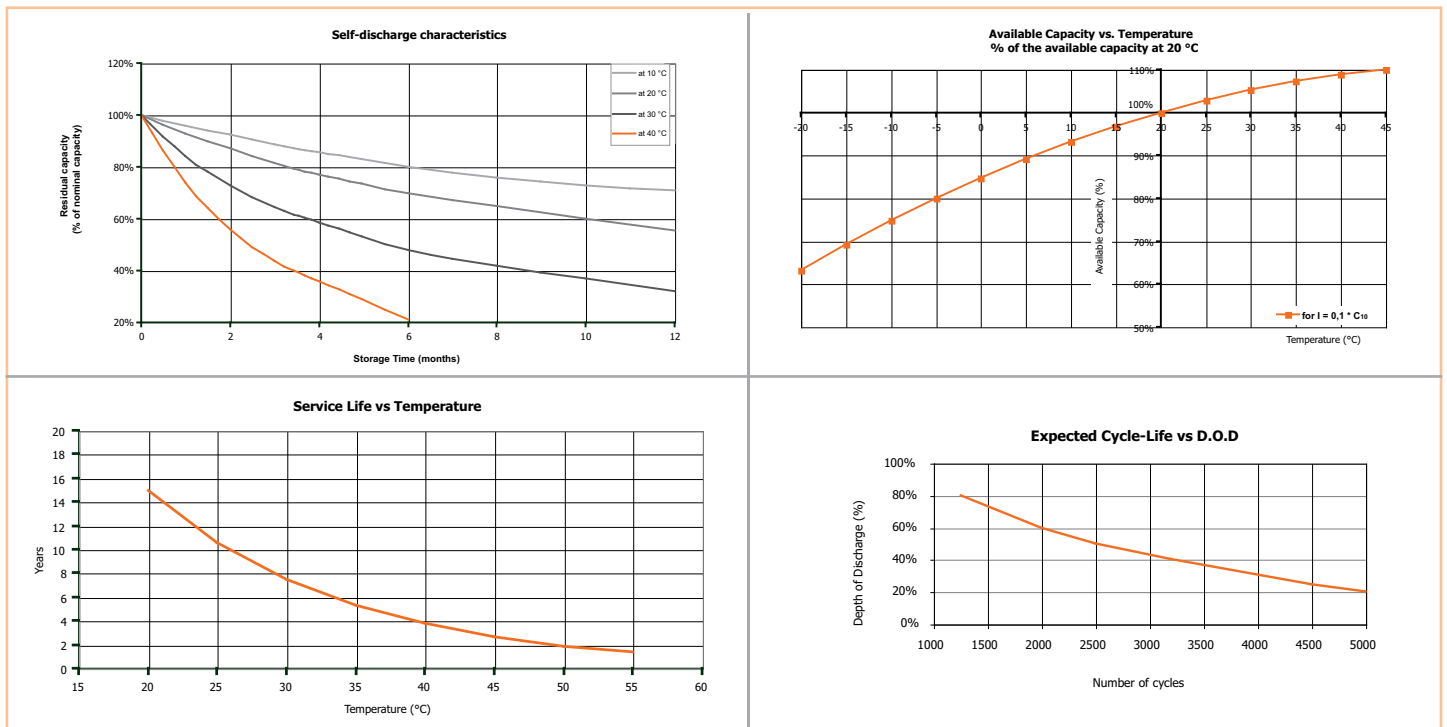
Constant Current Discharge in A/cell (at 20 °C)

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	199.4	134.2	102.2	84.3	64.4	53.0	40.1	32.9	27.7	24.2	19.3	16.5	9.3
1.65 V	188.1	130.2	99.9	82.8	63.4	52.3	39.7	32.5	27.4	24.0	19.2	16.3	9.2
1.70 V	173.0	124.0	96.4	80.6	62.1	51.3	39.1	32.0	27.0	23.7	19.0	16.2	9.1
1.75 V	156.1	114.1	90.4	76.7	59.6	49.5	37.9	31.3	26.4	23.3	18.7	15.9	9.0
1.80 V	130.6	100.2	81.7	70.7	55.7	46.8	36.3	30.1	25.5	22.6	18.2	15.4	8.8
1.83 V	112.2	88.4	73.5	64.5	51.8	44.2	34.5	28.8	24.6	21.8	17.6	15.0	8.5
1.85 V	100.0	80.6	67.5	59.5	48.8	42.1	33.1	27.9	23.9	21.3	17.1	14.6	8.3
1.87 V	87.7	72.0	61.4	54.8	45.7	40.1	31.8	26.6	22.8	20.4	16.5	14.3	8.0
1.90 V	69.8	60.7	52.9	48.0	40.3	35.4	28.8	24.5	21.0	18.9	15.2	13.2	7.4

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	338.4	238.7	184.2	153.3	117.3	97.3	74.5	61.4	52.1	45.8	36.6	31.4	17.7
1.65 V	322.5	232.3	180.3	150.6	115.6	96.1	73.7	60.8	51.6	45.3	36.4	31.1	17.6
1.70 V	301.0	222.3	174.4	146.8	113.3	94.3	72.6	59.9	50.9	44.7	36.0	30.7	17.4
1.75 V	280.3	206.8	164.7	140.2	109.9	91.6	70.9	58.8	50.0	44.1	35.6	30.3	17.2
1.80 V	237.8	182.9	149.9	130.2	103.3	87.6	68.1	56.9	48.4	43.0	34.8	29.6	16.9
1.83 V	206.5	164.0	136.5	119.8	97.1	83.6	65.5	54.9	46.9	41.7	33.9	29.0	16.5
1.85 V	185.8	150.6	126.2	111.3	92.2	80.0	63.3	53.4	45.7	41.0	33.0	28.3	16.1
1.87 V	164.9	135.6	116.2	104.1	86.5	76.4	61.1	51.3	44.2	39.5	32.1	28.0	15.7
1.90 V	132.8	116.0	101.2	91.8	77.1	68.4	55.8	47.6	40.9	36.9	29.7	26.1	14.8

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