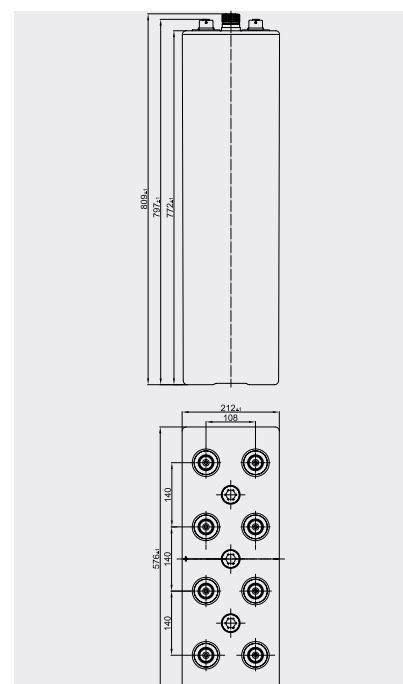


# OPzS Cell 2V 24 OPzS 3000

## Technical Characteristics

Capacity (Ah), C <sub>10</sub> (1.8 V/cell, 20 °C)	3343
Plate Capacity (Ah), C <sub>10</sub> (1.8 V/cell, 20 °C)	125
Number of plates (+) per cell	24
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)	300
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)	18470
Internal resistance (mOhm/cell)	0.112
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)	576x212x797
Weight:	
• Without electrolyte (kg)	158.0
• With electrolyte (kg)	230.0
Type and number of poles	M10 / 8



# OPzS Cell 2V 24 OPzS 3000

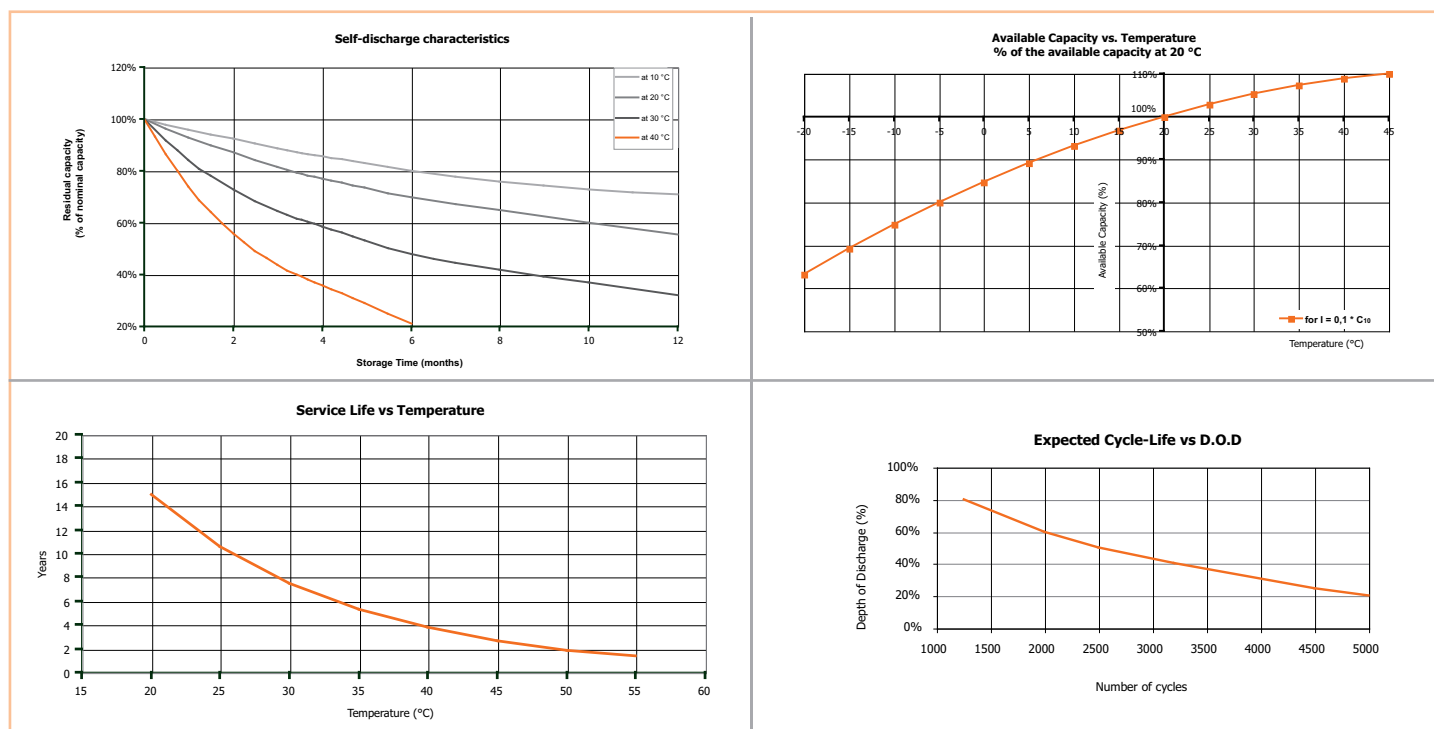
## Constant Current Discharge in A/cell (at 20 °C)

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	2966.5	2448.3	2019.2	1761.1	1402.2	1171.3	895.7	730.1	619.7	543.1	437.9	365.2	206.4
1.65 V	2669.1	2242.6	1892.5	1677.8	1361.1	1145.3	880.9	720.0	611.8	536.9	433.1	361.9	204.2
1.70 V	2354.4	2012.3	1728.1	1551.1	1291.5	1102.3	858.4	704.7	600.6	528.0	426.7	357.1	201.2
1.75 V	1967.2	1725.4	1526.6	1399.7	1191.1	1032.3	822.3	682.5	582.6	514.0	425.8	348.3	197.3
1.80 V	1618.5	1469.9	1328.6	1236.7	1071.1	947.6	765.8	642.6	554.0	489.7	398.0	334.3	189.6
1.83 V	1414.7	1293.6	1183.1	1110.5	977.0	870.4	711.4	600.3	520.7	461.6	378.2	317.4	179.9
1.85 V	1283.1	1186.1	1092.2	1030.1	908.1	809.8	664.7	562.6	488.9	435.6	359.3	303.0	171.1
1.87 V	1153.1	1070.2	987.8	933.1	826.2	738.0	614.1	525.4	461.3	412.2	340.7	286.6	163.8
1.90 V	948.9	883.1	823.2	783.2	704.9	639.1	539.8	464.1	407.6	366.4	304.8	260.1	149.0

## 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	4837.1	4158.7	3511.8	3114.8	2518.4	2137.9	1646.5	1356.8	1162.0	1021.9	828.0	692.4	394.3
1.65 V	4482.9	3887.7	3329.3	2982.5	2449.1	2093.4	1619.8	1338.1	1147.5	1010.8	819.5	686.1	390.2
1.70 V	4075.9	3568.5	3088.9	2788.3	2335.4	2020.0	1580.4	1312.1	1125.8	994.8	807.5	677.4	384.5
1.75 V	3495.5	3101.7	2761.0	2542.2	2181.2	1901.2	1528.9	1277.2	1096.7	972.5	788.0	665.2	376.8
1.80 V	2945.8	2678.4	2431.8	2270.7	1975.6	1760.9	1433.3	1209.3	1047.1	927.9	759.4	639.2	365.0
1.83 V	2605.1	2392.5	2188.7	2054.7	1820.7	1632.7	1344.2	1140.2	990.4	879.3	726.4	612.7	348.5
1.85 V	2390.3	2210.9	2039.4	1925.8	1704.2	1528.7	1266.4	1074.5	935.6	833.4	694.2	587.0	333.7
1.87 V	2173.5	2017.4	1864.3	1762.7	1564.3	1405.7	1178.1	1011.9	890.1	796.1	661.1	559.9	321.8
1.90 V	1806.8	1686.3	1573.8	1498.6	1351.9	1231.1	1044.7	899.7	791.6	715.1	596.4	511.8	296.1

## Diagrams



### SYSTEMS SUNLIGHT S.A.

#### Headquarters:

23<sup>rd</sup> 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