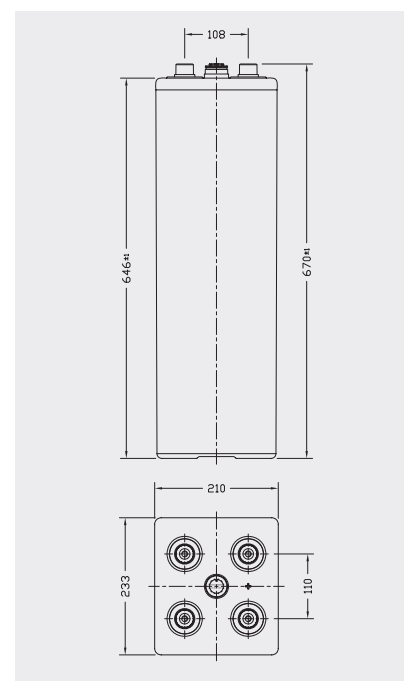


OPzV Cell 2V 10 OPzV 1000

Technical Characteristics

Capacity (Ah), C ₁₀ (1.8 V/cell, 20 °C)	1105
Plate Capacity (Ah), C ₁₀ (1.8 V/cell, 20 °C)	100
Number of plates (+) per cell	10
Alloy of positive plates	Lead Calcium Tin Alloy
Nominal voltage of battery cell (V)	2
Electrolyte	Sulfuric Acid, immobilized as gel
Floating voltage set point (V/cell)	2.25
Maximum initial charge current (A) 0.4 C ₁₀	400
Recommended Boost Charge Voltage (V/cell)	2.35
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)	7170
Internal resistance (mOhm/cell)	0.29
Number of cycles at 60% depth of discharge	1650
Self-discharge rate per month at 20 °C	2%
Efficiency factor (kWh)	85%
Efficiency factor (Ah)	95%
Dimensions in mm (LxWxH)	233x210x670
Weight (kg)	82.0
Type and number of poles	M10 / 4



OPzV Cell 2V 10 OPzV 1000

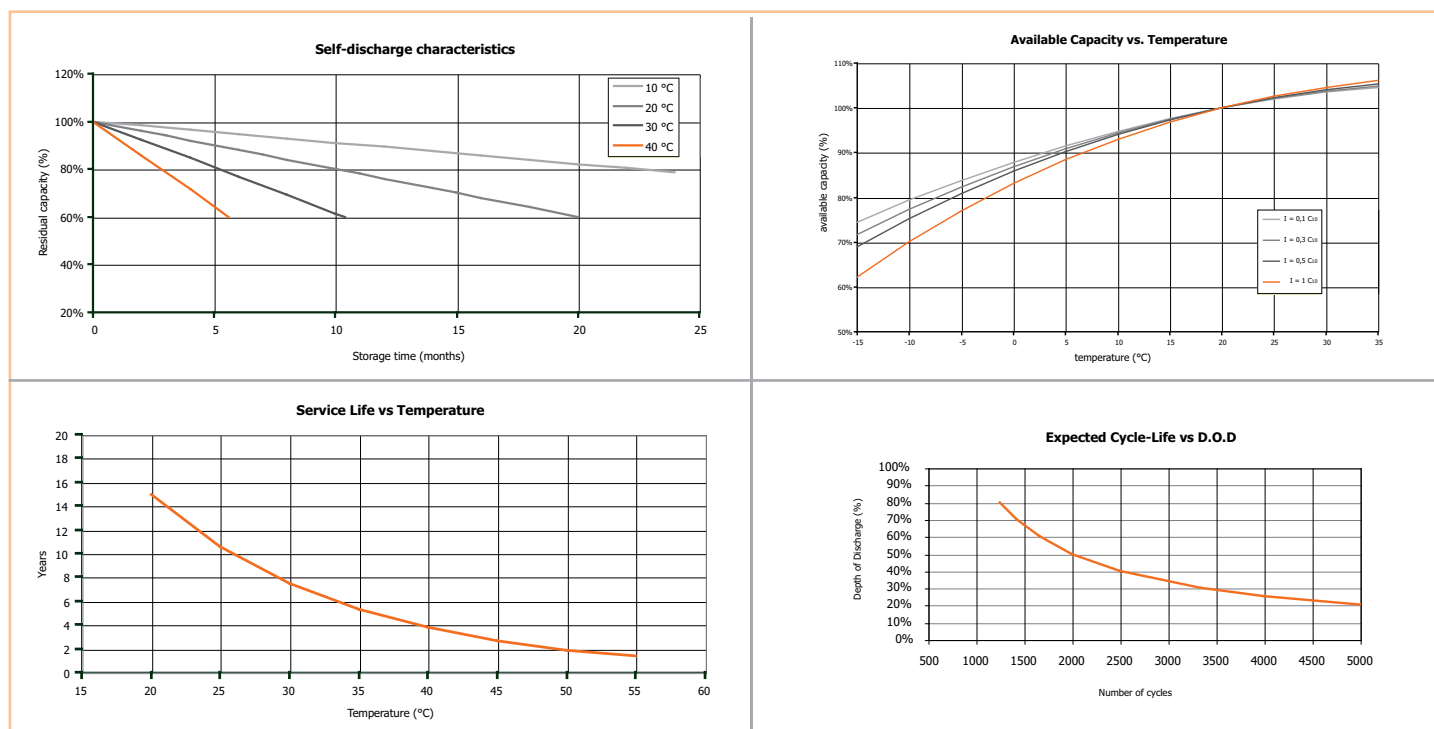
Constant Current Discharge in A/cell (at 20 °C)

Vend	Discharge Time											
	10 min	15 min	30 min	45 min	1 h	2 h	3 h	4 h	5 h	6 h	8 h	10 h
1.60 V	1169.3	1075.2	875.0	736.6	636.0	412.7	309.2	249.0	209.7	181.4	144.4	120.4
1.65 V	1075.9	996.0	825.6	706.0	615.3	404.1	304.4	245.3	206.9	179.4	142.8	119.2
1.70 V	969.5	904.3	760.2	659.2	581.8	392.6	297.0	240.7	203.1	176.5	140.6	117.5
1.75 V	850.4	799.9	682.0	597.0	532.0	371.8	286.0	233.1	197.4	171.8	137.4	115.0
1.80 V	720.1	684.1	592.3	523.3	469.8	337.2	264.8	218.8	187.1	163.5	131.6	110.5
1.83 V	637.3	608.9	533.0	473.9	427.4	310.4	245.9	205.0	176.3	155.1	125.6	106.2
1.85 V	580.2	556.9	490.9	438.7	396.8	290.5	231.5	193.6	167.0	147.2	119.8	101.7
1.87 V	522.3	503.3	447.7	401.8	364.7	268.9	215.4	180.6	156.4	138.2	112.8	95.8
1.90 V	433.4	420.7	379.6	344.0	314.2	234.7	189.2	159.4	138.4	122.5	100.6	85.5

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

Vend	Discharge Time											
	10 min	15 min	30 min	45 min	1 h	2 h	3 h	4 h	5 h	6 h	8 h	10 h
1.60 V	1827.6	1701.2	1432.2	1238.8	1091.5	739.9	565.5	460.7	390.9	340.0	272.5	228.3
1.65 V	1728.1	1611.6	1367.0	1193.9	1059.0	725.4	556.9	454.0	385.8	336.2	269.6	226.1
1.70 V	1605.1	1501.3	1280.7	1127.2	1008.1	705.6	544.1	445.8	379.0	331.0	265.5	222.8
1.75 V	1455.5	1367.5	1173.7	1037.3	933.0	670.4	524.5	432.1	368.6	322.5	259.5	218.3
1.80 V	1275.3	1206.1	1044.3	927.5	837.5	612.8	487.6	406.4	349.7	307.1	248.9	209.8
1.83 V	1152.0	1095.0	954.7	851.2	770.8	568.2	454.7	381.8	330.3	291.8	237.7	201.7
1.85 V	1063.4	1014.8	890.6	795.3	721.5	534.6	429.8	361.7	313.5	277.5	227.0	193.4
1.87 V	969.8	929.0	821.7	736.9	669.8	497.9	401.8	338.6	294.5	261.1	214.1	182.3
1.90 V	820.7	791.7	708.9	640.6	584.8	438.9	355.6	300.8	261.9	232.5	191.7	163.3

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

 **SUNLIGHT**
creating energy
www.sunlight.gr