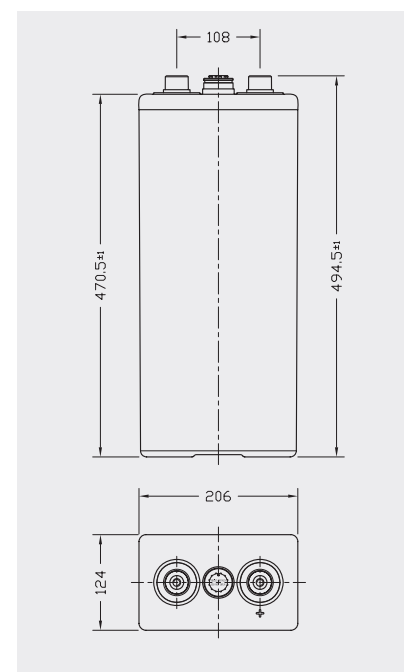


OPzV Cell 2V 5 OPzV 350

Technical Characteristics

Capacity (Ah), C ₁₀ (1.8 V/cell, 20 °C)	383
Plate Capacity (Ah), C ₁₀ (1.8 V/cell, 20 °C)	70
Number of plates (+) per cell	5
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	140
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)	3080
Internal resistance (mOhm/cell)	0.66
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)	124x206x495
Weight (kg)	31.0
Type and number of poles	M10 / 2



OPzV Cell 2V 5 OPzV 350

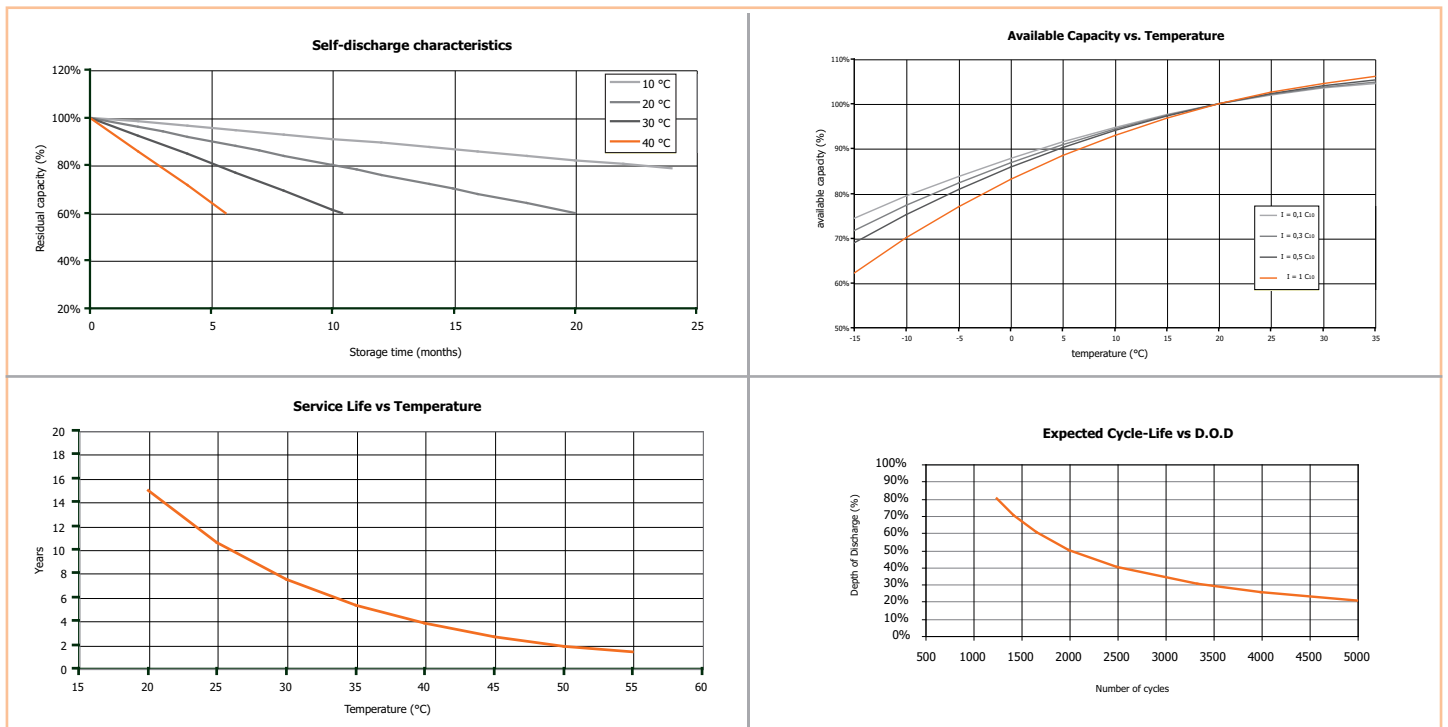
Constant Current Discharge in A/cell (at 20 °C)

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	451.2	407.2	319.4	264.2	226.2	144.6	107.7	86.4	72.6	62.7	49.8	41.5
1.65 V	423.8	385.2	307.5	256.9	220.9	142.1	106.1	85.2	71.7	62.0	49.3	41.1
1.70 V	389.7	356.5	289.3	244.9	212.3	138.7	103.9	83.8	70.4	61.1	48.5	40.5
1.75 V	348.9	321.4	264.2	226.5	198.4	133.1	100.7	81.5	68.7	59.6	47.5	39.7
1.80 V	301.8	280.4	233.4	201.7	177.9	122.9	94.5	77.2	65.6	57.1	45.7	38.3
1.83 V	270.4	252.9	212.5	184.3	163.4	114.1	88.8	73.1	62.3	54.5	43.9	36.9
1.85 V	248.3	233.3	197.6	171.7	152.7	107.4	83.9	69.3	59.4	52.0	42.0	35.5
1.87 V	225.3	212.8	181.6	158.7	141.3	100.1	78.4	65.0	55.8	49.0	39.7	33.5
1.90 V	189.3	180.2	156.0	137.6	123.2	88.1	69.4	57.7	49.7	43.8	35.6	30.1

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	717.8	659.1	537.5	455.9	397.0	263.1	199.2	161.3	136.3	118.4	94.5	79.0
1.65 V	686.4	631.7	520.2	444.4	388.3	258.9	196.3	159.2	134.7	117.1	93.5	78.3
1.70 V	645.7	595.4	494.0	425.8	374.4	252.9	192.5	156.6	132.5	115.3	92.1	77.2
1.75 V	594.6	549.6	458.1	397.7	352.1	243.0	186.6	152.4	129.2	112.7	90.2	75.6
1.80 V	530.4	492.6	412.9	359.6	319.6	225.5	175.6	144.6	123.5	108.0	86.9	73.0
1.83 V	484.7	452.2	381.2	332.2	296.2	210.4	165.4	137.1	117.5	103.2	83.4	70.4
1.85 V	451.3	422.5	357.7	312.1	278.7	198.9	156.7	130.3	112.1	98.5	79.9	67.8
1.87 V	415.1	390.2	332.1	291.0	260.0	186.3	147.1	122.6	105.6	93.1	75.7	64.1
1.90 V	356.1	337.1	290.3	255.6	229.4	165.3	130.9	109.3	94.5	83.3	68.0	57.6

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