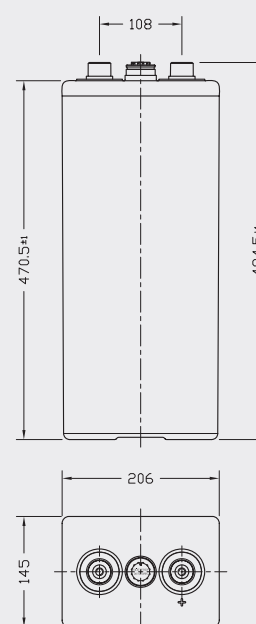


OPzV Cell 2V 6 OPzV 420

Technical Characteristics

Capacity (Ah), C ₁₀ (1.8 V/cell, 20 °C)	453
Plate Capacity (Ah), C ₁₀ (1.8 V/cell, 20 °C)	70
Number of plates (+) per cell	6
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	168
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)	3880
Internal resistance (mOhm/cell)	0.53
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)	145x206x495
Weight (kg)	36.5
Type and number of poles	M10 / 2



OPzV Cell 2V 6 OPzV 420

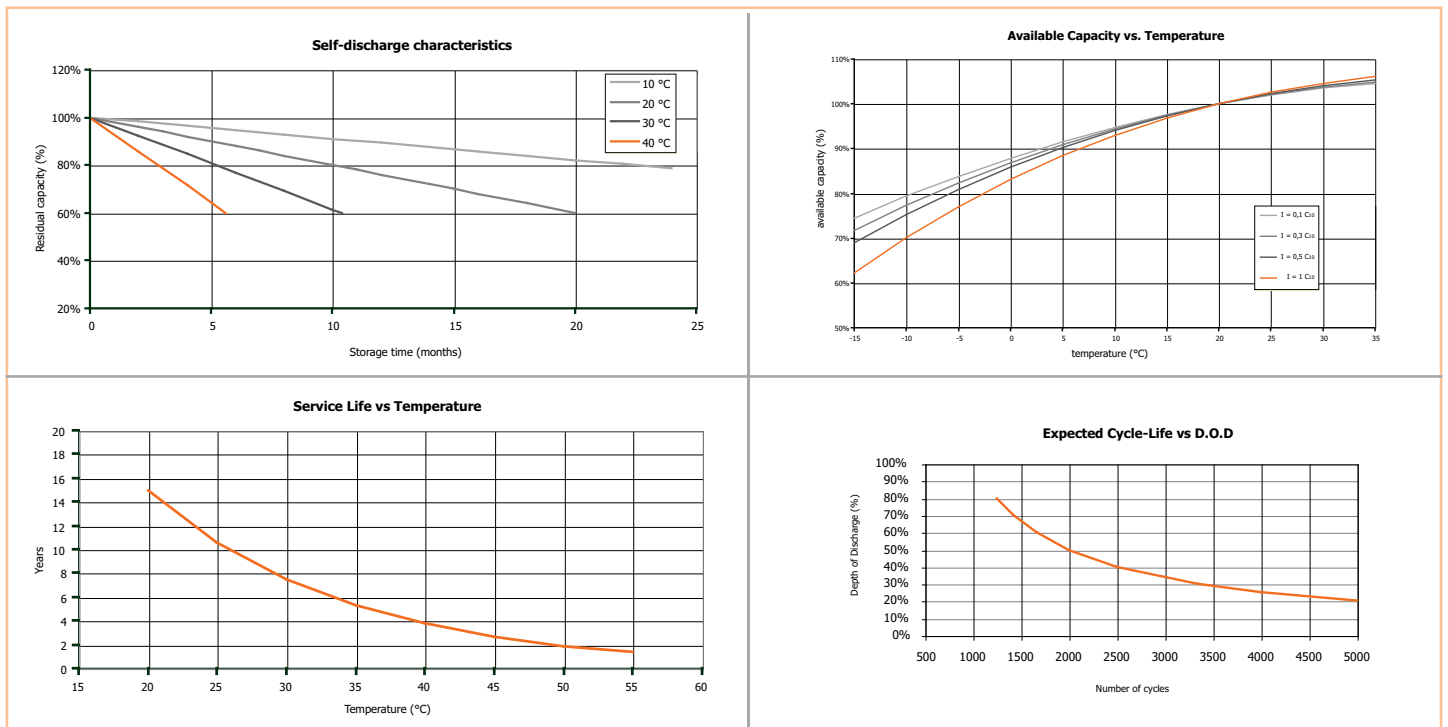
Constant Current Discharge in A/cell (at 20 °C)

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	545.1	489.4	380.3	313.5	267.8	170.6	127.0	101.9	85.6	74.1	58.8	49.0
1.65 V	514.8	465.6	367.9	305.6	262.0	167.9	125.2	100.7	84.6	73.3	58.2	48.5
1.70 V	475.5	432.9	347.9	292.7	252.5	164.2	122.9	99.0	83.2	72.1	57.3	47.8
1.75 V	428.2	392.3	319.4	272.2	237.4	157.8	119.2	96.3	81.2	70.5	56.1	46.9
1.80 V	372.1	343.9	283.5	243.5	214.0	146.6	112.3	91.6	77.7	67.6	54.1	45.3
1.83 V	334.4	311.1	258.9	223.0	196.9	136.4	105.7	86.8	74.0	64.7	51.9	43.7
1.85 V	307.7	287.6	241.0	208.2	184.3	128.6	100.1	82.5	70.5	61.8	49.8	42.1
1.87 V	279.8	262.8	221.9	192.8	171.0	120.1	93.7	77.5	66.4	58.3	47.1	39.7
1.90 V	235.8	223.2	191.3	167.4	149.4	105.8	83.1	68.9	59.3	52.1	42.3	35.7

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	872.8	798.0	644.6	544.2	472.6	311.6	235.6	190.8	161.2	140.1	111.8	93.5
1.65 V	836.8	767.2	626.0	531.7	462.9	307.0	232.3	188.5	159.2	138.5	110.6	92.5
1.70 V	789.5	725.1	596.7	511.3	447.4	300.3	228.2	185.4	156.8	136.4	108.9	91.3
1.75 V	729.1	671.3	555.3	479.5	422.8	289.1	221.4	180.5	153.0	133.3	106.7	89.5
1.80 V	653.0	603.6	502.0	435.0	385.3	269.5	209.1	171.9	146.4	128.0	102.9	86.5
1.83 V	598.6	555.6	464.5	402.5	357.6	252.0	197.3	163.1	139.7	122.5	98.9	83.5
1.85 V	558.3	519.9	436.3	378.8	336.8	238.5	187.3	155.3	133.4	117.2	94.9	80.4
1.87 V	514.6	481.3	405.5	353.6	314.8	223.6	175.8	146.2	125.8	110.8	89.9	76.0
1.90 V	442.6	417.0	355.6	311.2	278.0	198.7	156.8	130.6	112.7	99.3	80.9	68.5

Diagrams



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