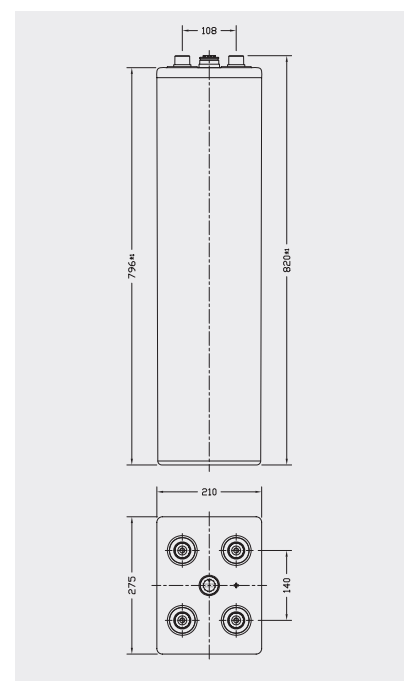




OPzV Cell 2V 12 OPzV 1500

Technical Characteristics

Capacity (Ah), C ₁₀ (1.8 V/cell, 20 °C)	1611
Plate Capacity (Ah), C ₁₀ (1.8 V/cell, 20 °C)	125
Number of plates (+) per cell	12
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	600
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)	9360
Internal resistance (mOhm/cell)	0.22
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)	275x210x820
Weight (kg)	120.0
Type and number of poles	M10 / 4



OPzV Cell 2V 12 OPzV 1500

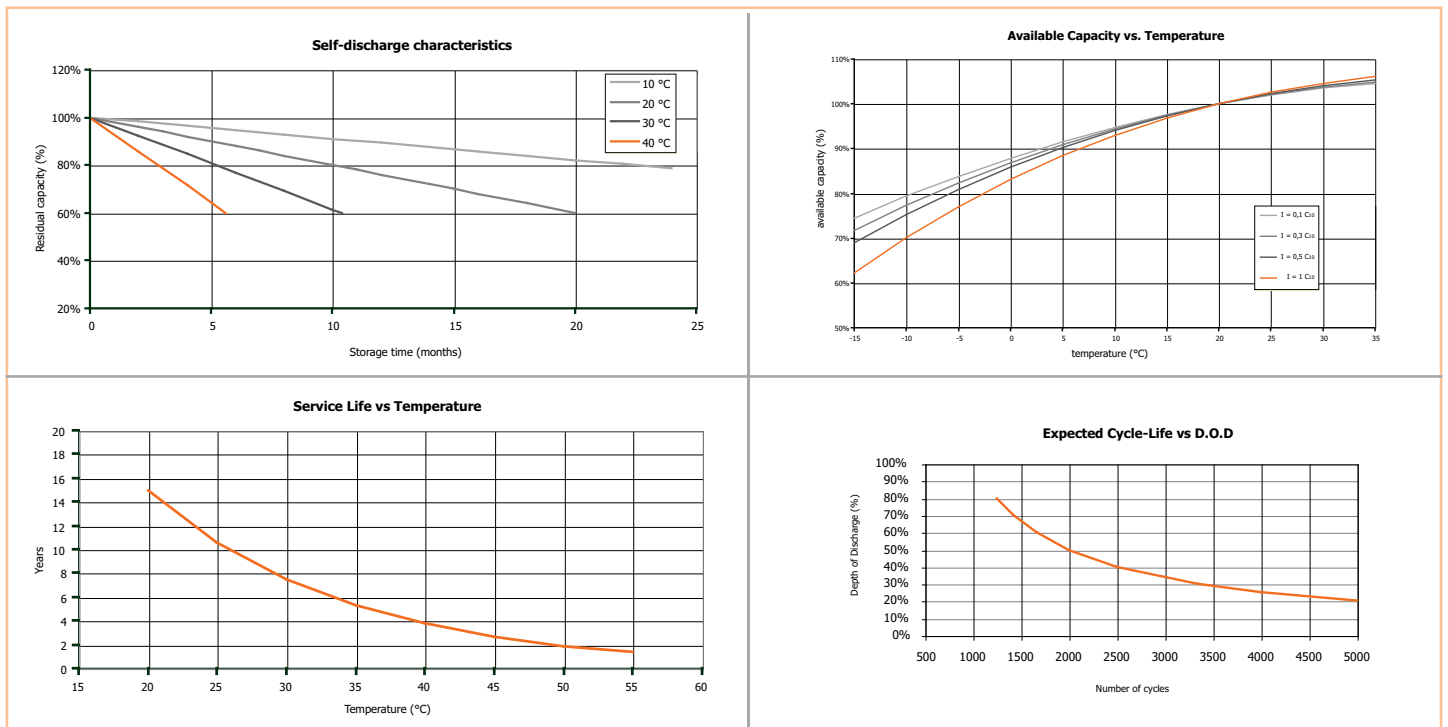
Constant Current Discharge in A/cell (at 20 °C)

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	1565.5	1461.9	1231.0	1064.6	934.3	617.7	464.2	373.7	314.7	272.2	216.4	180.4
1.65 V	1421.3	1335.3	1137.6	994.9	883.5	599.9	454.0	366.8	309.6	268.2	213.6	178.3
1.70 V	1264.6	1196.0	1031.1	909.1	813.2	572.3	439.2	357.4	301.8	262.8	209.5	175.2
1.75 V	1097.0	1045.4	912.5	809.8	729.7	527.3	413.4	340.4	290.1	253.1	202.9	170.1
1.80 V	920.1	883.6	782.4	700.9	635.7	467.1	372.0	310.8	267.5	235.5	190.8	161.1
1.83 V	810.3	781.7	699.0	630.0	573.7	425.7	341.3	286.6	247.7	219.0	178.6	151.8
1.85 V	736.5	712.5	641.3	580.6	530.2	396.1	319.1	268.5	233.0	206.2	168.6	143.3
1.87 V	662.0	641.7	581.9	529.3	484.9	364.8	295.2	249.2	216.7	192.2	157.7	134.1
1.90 V	548.0	534.2	489.6	448.7	413.7	315.9	257.3	218.1	190.2	168.9	138.8	118.1

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	2431.2	2283.5	1968.6	1741.1	1558.9	1084.1	834.6	681.1	578.8	503.9	404.2	338.7
1.65 V	2280.4	2145.8	1856.0	1649.5	1487.0	1055.6	817.0	669.3	569.7	496.8	398.9	334.8
1.70 V	2099.9	1982.7	1721.4	1534.8	1387.5	1009.8	791.7	652.5	555.8	486.9	391.5	329.1
1.75 V	1886.2	1789.6	1564.4	1396.1	1266.8	937.8	747.3	622.7	534.9	469.5	379.3	319.7
1.80 V	1637.4	1563.3	1377.4	1237.2	1126.4	841.1	677.7	571.1	494.8	437.8	357.2	303.1
1.83 V	1471.3	1410.6	1252.5	1129.2	1030.4	773.6	626.1	529.5	460.0	408.4	335.1	286.0
1.85 V	1354.1	1301.9	1162.4	1051.1	960.8	724.3	588.1	497.8	434.0	385.5	316.9	270.4
1.87 V	1232.2	1188.3	1067.6	968.5	887.1	671.9	547.1	464.3	405.1	360.4	297.2	253.6
1.90 V	1039.7	1007.8	915.9	836.5	769.9	588.4	481.0	409.2	357.9	318.7	262.6	224.2

Diagrams



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