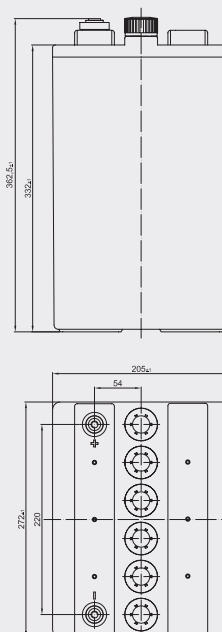


OPzS Monoblock 12V 2 0PzS 100

Technical Characteristics

Capacity (Ah), C ₁₀ (1.8 V/cell, 20 °C)	103
Plate Capacity (Ah), C ₁₀ (1.8 V/cell, 20 °C)	50
Number of plates (+) per cell	2
Content in Antimony of positive plates	≤1.65%
Nominal voltage (V)	12
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)	10
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)	1219
Internal resistance (mOhm/cell)	1.70
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)	272x205x363
Weight:	
• Without electrolyte (kg)	37.7
• With electrolyte (Kg)	49.4
Type and number of poles	M10 / 2



OPzS Monoblock 12V 2 OPzS 100

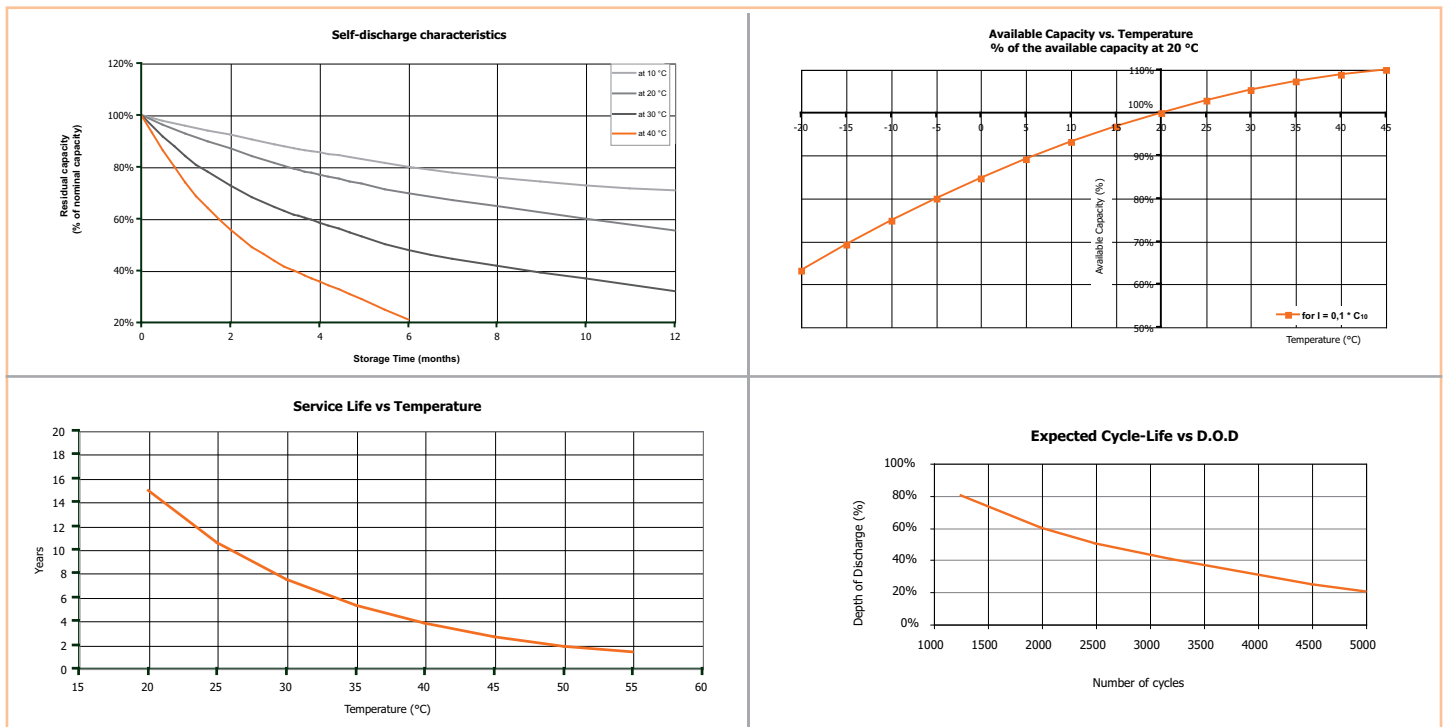
Constant Current Discharge in A/cell (at 20 °C)

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	135.4	90.4	68.7	56.6	43.1	35.4	26.8	22.0	18.5	16.2	12.9	11.0	6.2
1.65 V	128.3	87.9	67.2	55.6	42.5	35.0	26.5	21.7	18.3	16.0	12.8	10.9	6.1
1.70 V	118.5	84.0	65.0	54.1	41.6	34.3	26.1	21.4	18.0	15.8	12.6	10.8	6.1
1.75 V	107.3	77.6	61.2	51.7	40.0	33.2	25.3	20.9	17.6	15.6	12.5	10.6	6.0
1.80 V	90.1	68.5	55.6	47.9	37.5	31.5	24.3	20.2	17.0	15.1	12.1	10.3	5.8
1.83 V	77.5	60.5	50.1	43.8	35.0	29.8	23.2	19.3	16.4	14.6	11.7	10.0	5.7
1.85 V	69.2	55.2	46.0	40.4	33.0	28.4	22.3	18.7	16.0	14.3	11.4	9.7	5.5
1.87 V	60.8	49.5	41.9	37.3	30.9	27.1	21.4	17.8	15.3	13.6	11.0	9.5	5.3
1.90 V	48.5	41.8	36.2	32.7	27.3	24.0	19.4	16.5	14.1	12.7	10.2	8.8	4.9

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	231.2	161.5	124.3	103.2	78.8	65.2	49.9	41.1	34.8	30.6	24.4	20.9	11.8
1.65 V	220.9	157.5	121.8	101.5	77.7	64.4	49.3	40.6	34.4	30.3	24.3	20.7	11.7
1.70 V	206.8	151.1	118.0	99.0	76.1	63.3	48.6	40.1	34.0	29.9	24.0	20.5	11.6
1.75 V	193.0	141.1	111.8	94.8	74.0	61.5	47.5	39.3	33.4	29.5	23.8	20.2	11.5
1.80 V	164.2	125.3	102.1	88.3	69.8	59.0	45.7	38.1	32.4	28.7	23.2	19.7	11.2
1.83 V	142.7	112.4	93.1	81.4	65.7	56.4	44.0	36.8	31.4	27.9	22.6	19.4	11.0
1.85 V	128.5	103.3	86.2	75.7	62.4	54.0	42.6	35.8	30.7	27.4	22.1	18.9	10.7
1.87 V	114.2	93.2	79.4	70.9	58.6	51.6	41.2	34.5	29.6	26.4	21.5	18.7	10.5
1.90 V	92.3	79.8	69.3	62.6	52.3	46.3	37.6	32.0	27.5	24.8	19.9	17.4	9.9

Diagrams



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