



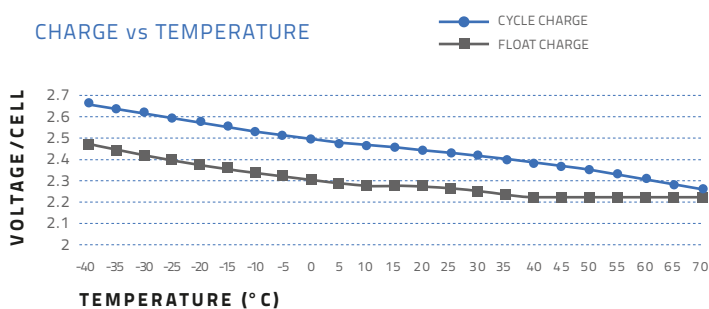
DISCHARGE CURRENT AND END VOLTAGE

Discharge current (A)	End voltage (V)
0.05C or below or Intermittent discharge	1.9
0.05C of current close to it	1.85
0.1C of current close to it	1.8
0.2C of current close to it	1.75
From 0.2C to 0.5C	1.7
From 0.5C to 1C	1.6
From 1C to 3C	1.5
Current in excess of 3C	1.3

SPECIFICATION

Nominal Voltage	2V		
Rated Capacity (10 hour rate)	100 AH		
Dimension	Total Height (top of terminal)	210 mm	8.27"
	Height	205 mm	8.07"
	Length	172 mm	6.77"
	Width	72 mm	2.83"
Weight	Approximately 5.8 kg / 12.78lbs		
Capacity 25° C	120 hour rate (1.0A)	120 AH	
	20 hour rate (5.4A)	108 AH	
	10 hour rate (10A)	100 AH	
Internal Resistance	Fully charged Battery (25° C)	0.6mΩ	
Self-Discharge 25° C	Capacity after 3 month storage	95%	
	Capacity after 6 month storage	85%	
	Capacity after 12 month storage	80%	
Max Discharge Current 25° C	1000A (5S)		
Terminal	Standard	F3	
	Optional		
Charging (Constant Voltage)	Cycle	Initial Charging Current 30A 2.45V/ (25° C)	
	Float	2.27V/ (25° C)	

CHARGE vs TEMPERATURE



CHARGE vs TEMPERATURE CHART

temperature	-40	-35	-30	-25	-20	-15	-10	-5	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70
Cycle Charge	2.66	2.64	2.62	2.60	2.58	2.56	2.54	2.52	2.50	2.48	2.47	2.47	2.45	2.45	2.43	2.41	2.39	2.37	2.35	2.33	2.31	2.29	2.27
Float Charge (voltage/cell)	2.46	2.44	2.42	2.40	2.38	2.36	2.34	2.32	2.31	2.30	2.29	2.29	2.29	2.27	2.26	2.24	2.23	2.23	2.23	2.23	2.23	2.23	2.23

CONSTANT CURRENT DISCHARGE CHARACTERISTICS: UNITS AMPERES (25° C)

End Voltage per cell	5min	15min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	12h	20h	24h
1.60V	270.24	172.40	113.60	85.50	69.90	41.70	30.30	23.55	20.00	17.20	13.00	10.50	8.85	5.53	4.63
1.67V	232.60	156.30	105.30	81.00	67.70	39.80	28.80	23.30	19.00	17.00	12.80	10.30	8.85	5.53	4.63
1.70V	222.20	151.50	102.00	80.00	65.40	39.20	28.20	23.10	18.90	16.90	12.70	10.20	8.85	5.52	4.62
1.75V	202.00	141.80	98.00	76.90	63.30	37.70	27.40	22.50	18.30	16.50	12.50	10.10	8.77	5.52	4.61
1.80V	178.60	129.90	94.30	74.10	60.60	36.40	27.00	22.10	17.90	16.10	12.20	10.00	8.58	5.50	4.59
1.83V	155.90	118.70	87.10	68.87	57.30	34.80	26.00	21.20	17.10	15.50	11.80	9.70	8.35	5.48	4.46
1.85V	133.30	107.50	80.00	63.70	54.10	33.30	25.00	20.40	16.40	15.00	11.40	9.43	8.11	5.47	4.33

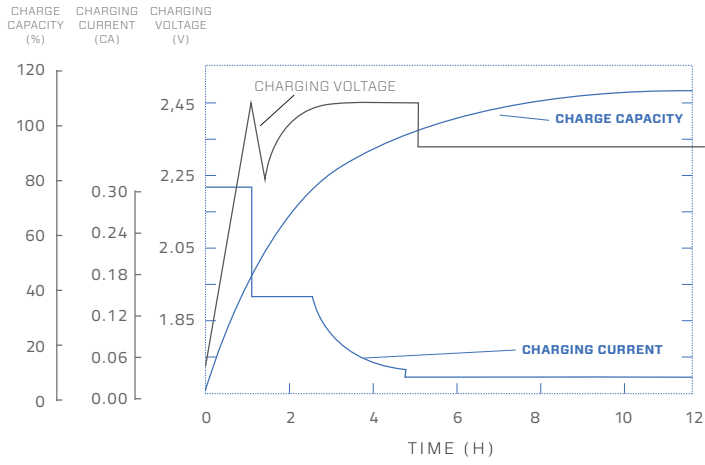
DISCHARGE DATA WITH CONSTANT POWER UNITS: WATTS PER CELL (25° C)

End Voltage per cell	5min	15min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	12h	20h	24h
1.60V	448.10	301.70	206.50	206.50	130.40	79.60	58.00	45.10	38.40	33.70	25.50	20.78	17.40	10.80	9.06
1.67V	400.30	281.30	193.30	193.30	127.00	77.12	56.60	44.90	37.20	33.30	25.00	20.30	17.40	10.80	9.06
1.70V	387.39	274.00	188.00	188.00	123.40	75.10	54.30	44.60	36.50	33.10	24.91	20.10	17.40	10.80	9.05
1.75V	357.60	257.60	181.80	181.80	120.00	72.60	53.00	43.90	35.60	32.60	24.40	19.90	17.40	10.80	9.04
1.80V	324.20	237.40	175.60	175.60	115.50	70.20	52.40	43.10	34.70	32.10	24.00	19.70	16.90	10.70	9.02
1.83V	286.30	219.80	164.00	164.00	109.70	67.60	50.60	41.70	33.50	31.20	23.20	19.20	16.50	10.70	8.79
1.85V	248.40	202.19	152.40	152.40	104.00	65.00	48.80	40.20	32.20	30.30	22.40	18.70	16.10	10.60	8.57



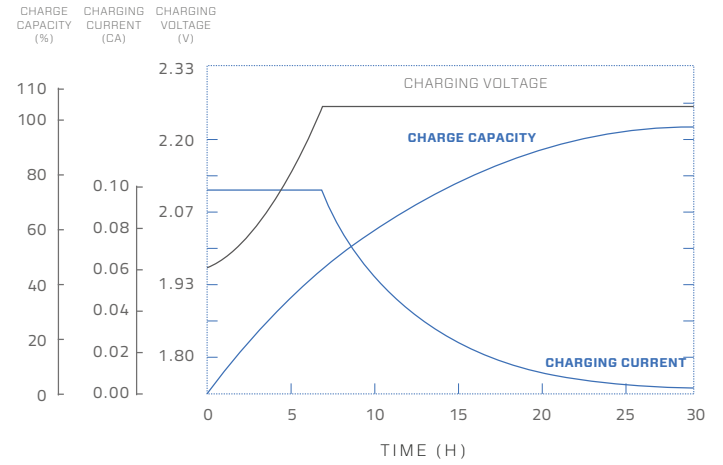
CYCLE CHARGE CHARACTERISTIC (25°C)

REGULAR CYCLE CHARGE CHARACTERISTICS 77°F (25°C)



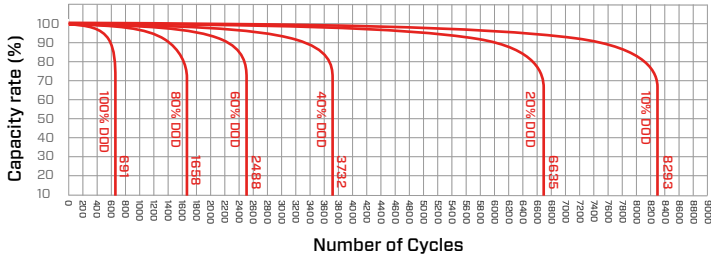
FLOATING CHARGE CHARACTERISTIC (25°C)

FLOATING CHARGE CHARACTERISTICS 77°F (25°C)

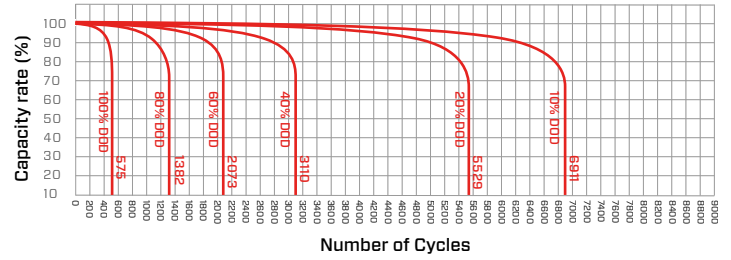


CYCLE LIFE CURVE GRAPH

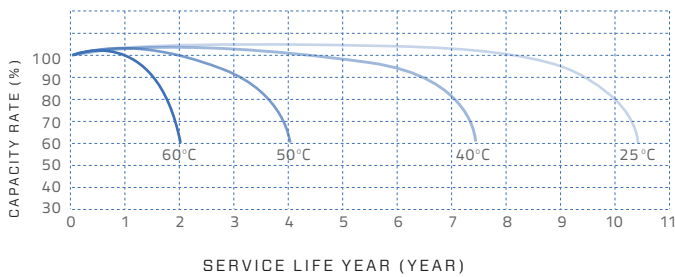
Cycle life curve graph (25°C) 2V



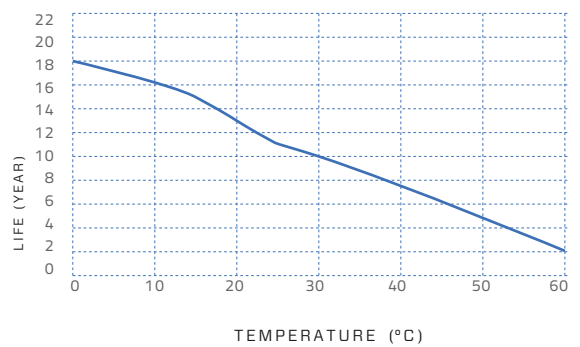
Cycle life curve graph (40°C) 2V



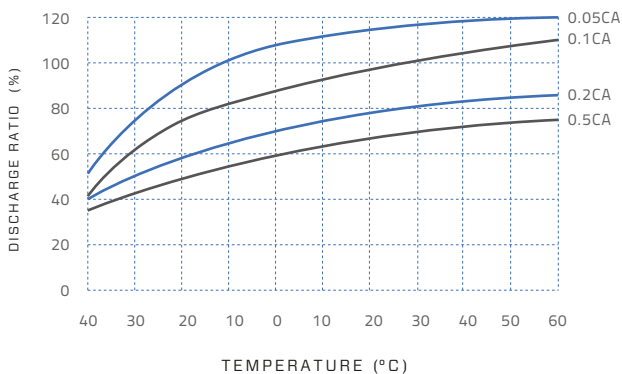
TEMPERATURE & FLOAT SERVICE LIFE



FLOAT SERVICE LIFE CURVE GRAPH



TEMPERATURE & DISCHARGE CAPACITY



info@greenrhino-energy.com
www.greenrhino-energy.com

www.leadcrystalbatteries.com

