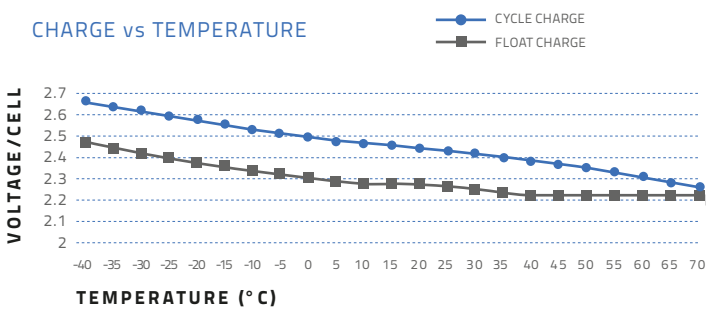




**DISCHARGE CURRENT AND END VOLTAGE**

Discharge current (A)	End voltage (V)
0.05C or below or Intermittent discharge	11.4
0.05C of current close to it	11.1
0.1C of current close to it	10.8
0.2C of current close to it	10.5
From 0.2C to 0.5C	10.2
From 0.5C to 1C	9.6
From 1C to 3C	9.0
Current in excess of 3C	7.8

**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	440.35	233.04	140.81	102.66	82.68	47.37	34.40	26.98	23.01	19.56	14.91	12.42	10.42	6.78	5.54
1.67V	409.25	225.41	138.72	101.95	82.54	47.17	33.78	26.84	22.68	19.42	14.89	12.28	10.40	6.76	5.52
1.70V	405.07	221.95	137.33	100.58	81.85	46.75	33.57	26.70	22.33	19.21	14.84	12.28	10.37	6.74	5.51
1.75V	371.09	214.99	135.96	99.89	80.46	45.85	33.43	26.37	22.13	19.08	14.77	12.14	10.32	6.71	5.51
1.80V	332.93	201.12	130.39	97.10	78.38	45.16	33.30	26.29	21.85	18.87	14.71	12.00	10.27	6.49	5.49
1.83V	318.24	184.51	128.33	93.65	74.92	44.74	31.98	25.18	21.36	18.17	14.39	11.51	9.85	6.42	5.42
1.85V	298.22	178.94	120.00	90.18	72.83	42.94	31.14	24.83	20.81	17.57	14.22	11.38	9.71	6.35	5.38

**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	735.84	409.19	263.55	192.11	154.54	89.47	65.40	51.81	43.76	37.59	28.99	24.00	20.18	13.46	11.03
1.67V	700.48	402.95	252.89	190.73	154.66	89.47	64.57	51.74	43.76	37.52	28.99	23.93	20.18	13.45	11.03
1.70V	696.31	400.17	252.77	190.73	153.27	88.77	64.43	51.55	43.07	37.24	28.78	23.72	19.97	13.39	11.03
1.75V	648.46	395.32	253.05	190.72	152.58	88.08	64.29	51.46	42.93	36.97	28.64	23.56	19.97	13.39	10.96
1.80V	595.07	375.20	247.59	187.25	151.89	88.08	64.22	51.32	42.65	36.97	28.57	23.44	19.97	13.04	10.96
1.83V	574.25	344.69	245.52	181.71	145.65	87.39	62.42	49.59	42.17	35.79	28.57	22.75	19.63	12.90	10.89
1.85V	531.95	337.06	228.18	174.78	141.48	85.31	60.69	48.96	40.99	35.09	27.47	22.54	19.28	12.76	10.82

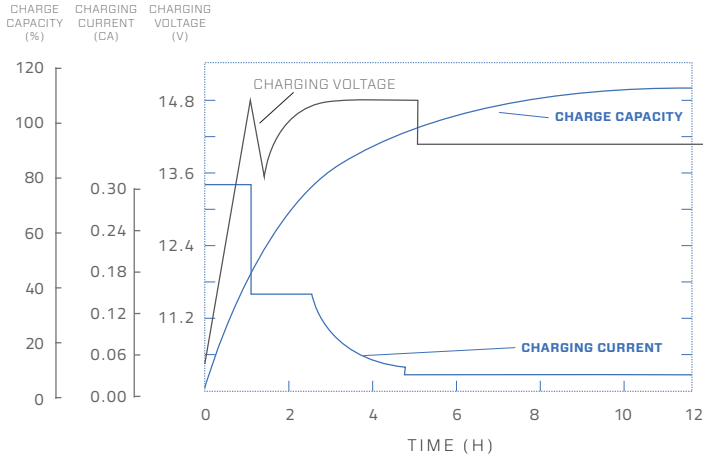
**SPECIFICATION**

Nominal Voltage	12V		
Rated Capacity (10 hour rate)	120 AH		
Dimension	Total Height (top of terminal)	234 mm	9.21"
	Height	211 mm	8.31"
	Length	408 mm	16.06"
	Width	172 mm	6.77"
Weight	Approximately 36.5 kg / 80.46 lbs		
Capacity	120 hour rate (1.2A)	144 AH	
	25°C 20 hour rate (6.6A)	132 AH	
	10 hour rate (12A)	120 AH	
Internal Resistance	Fully charged Battery (25°C)	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	1200A (5S)		
Terminal	Standard	F4	
	Optional		
Charging (Constant Voltage)	Cycle	Initial Charging Current 36A 14.7V/ (25 )	
	Float	13.6V/ (25 )	



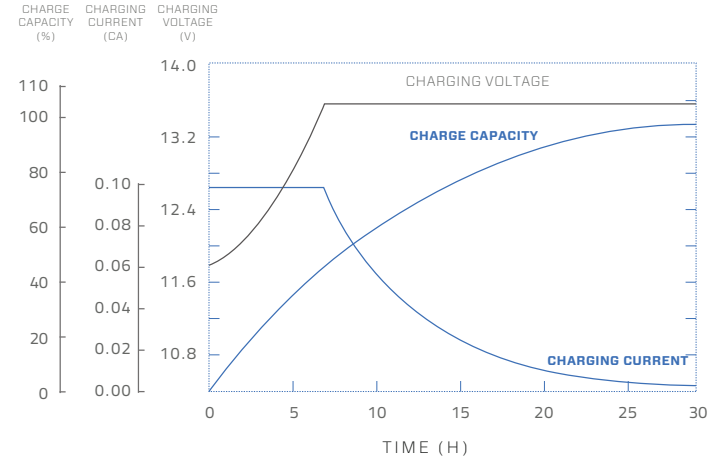
**CYCLE CHARGE CHARACTERISTIC (25°C)**

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



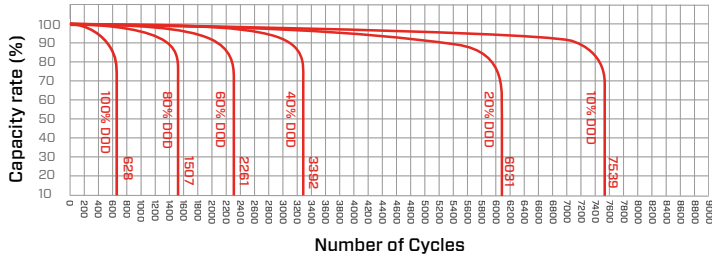
**FLOATING CHARGE CHARACTERISTIC (25°C)**

FLOATING CHARGE CHARACTERISTICS 77°F (25°C)

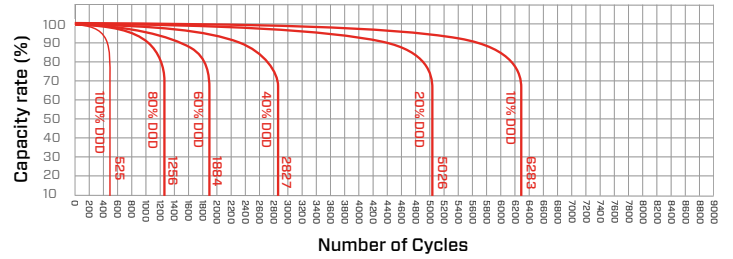


**CYCLE LIFE CURVE GRAPH**

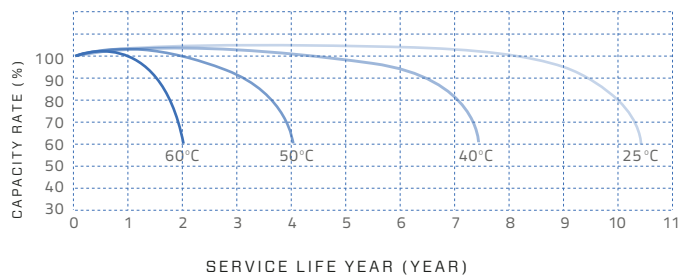
Cycle life curve graph (25°C) 12V



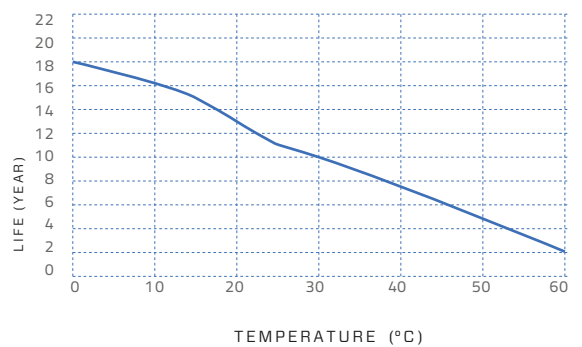
Cycle life curve graph (40°C) 12V



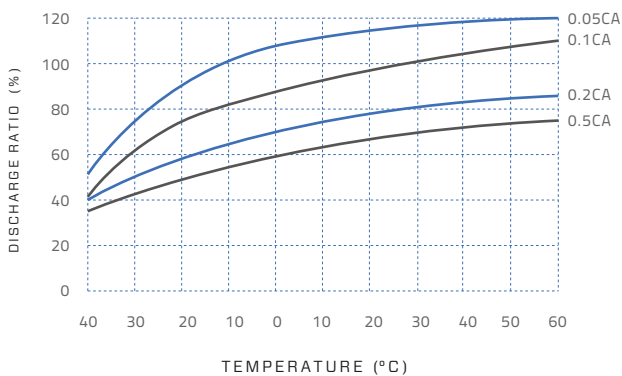
**TEMPERATURE & FLOAT SERVICE LIFE**



**FLOAT SERVICE LIFE CURVE GRAPH**



**TEMPERATURE & DISCHARGE CAPACITY**



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

www.leadcrystalbatteries.com

