



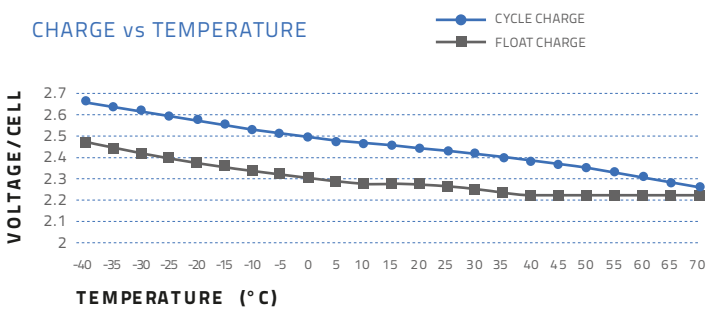
**DISCHARGE CURRENT AND END VOLTAGE**

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

**SPECIFICATION**

Nominal Voltage	12V		
Rated Capacity (10 hour rate)	170 AH		
Dimension	Total Height (top of terminal)	320 mm	12.6"
	Height	320 mm	12.6"
	Length	546 mm	21.50"
	Width	125 mm	4.92"
Weight	Approximately 50kg / 110.23 lbs		
Capacity	120 hour rate (1.8A)	216 AH	
	25° C	20 hour rate (9.5A)	190 AH
		10 hour rate (17)	170 AH
Internal Resistance	Fully charged Battery (25° C)	3mΩ	
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	1700A (5S)		
Terminal	Standard	F4	
	Optional		
Charging (Constant Voltage)	Cycle	Initial Charging Current 51A 14.7V/ (25 )	
	Float	13.6V/ (25 )	

**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	623.83	330.14	199.48	145.43	117.13	67.11	48.74	38.22	32.60	27.71	21.13	17.59	14.76	9.61	7.85
1.67V	579.77	319.33	196.52	144.43	116.93	66.82	47.86	38.03	32.13	27.51	21.10	17.39	14.74	9.58	7.82
1.70V	573.85	314.43	194.55	142.48	115.96	66.23	47.56	37.83	31.64	27.22	21.03	17.39	14.69	9.55	7.81
1.75V	525.71	304.57	192.61	141.51	113.99	64.95	47.36	37.35	31.35	27.02	20.93	17.20	14.62	9.51	7.80
1.80V	471.65	284.92	184.72	137.56	111.04	63.97	47.17	37.24	30.95	26.73	20.83	17.00	14.54	9.19	7.78
1.83V	450.84	261.39	181.80	132.67	106.13	63.38	45.30	35.67	30.27	25.75	20.39	16.31	13.95	9.09	7.68
1.85V	422.48	253.50	170.00	127.75	103.17	60.83	44.12	35.18	29.48	24.89	20.15	16.12	13.76	8.99	7.62

**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	1042.43	579.69	373.36	272.16	218.94	126.75	92.65	73.39	62.00	53.25	41.07	34.00	28.59	19.06	15.62
1.67V	992.34	570.84	358.26	270.20	219.10	126.75	91.47	73.30	62.00	53.16	41.07	33.90	28.59	19.06	15.62
1.70V	986.44	566.91	358.09	270.20	217.13	125.76	91.28	73.03	61.02	52.76	40.78	33.60	28.30	18.96	15.62
1.75V	918.65	560.03	358.49	270.19	216.16	124.78	91.08	72.90	60.82	52.37	40.58	33.38	28.30	18.96	15.52
1.80V	843.02	531.54	350.76	265.28	215.17	124.78	90.98	72.71	60.43	52.37	40.48	33.21	28.30	18.47	15.52
1.83V	813.53	488.31	347.82	257.42	206.33	123.80	88.43	70.25	59.74	50.70	40.48	32.23	27.81	18.28	15.43
1.85V	753.59	477.50	323.25	247.61	200.44	120.85	85.97	69.37	58.07	49.72	38.91	31.93	27.31	18.08	15.33

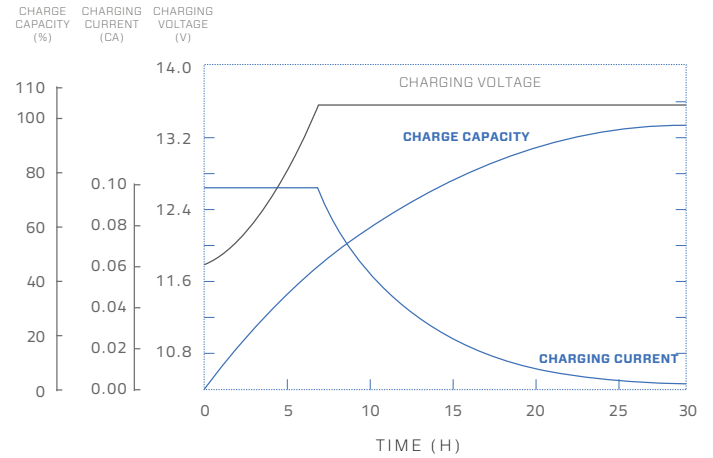
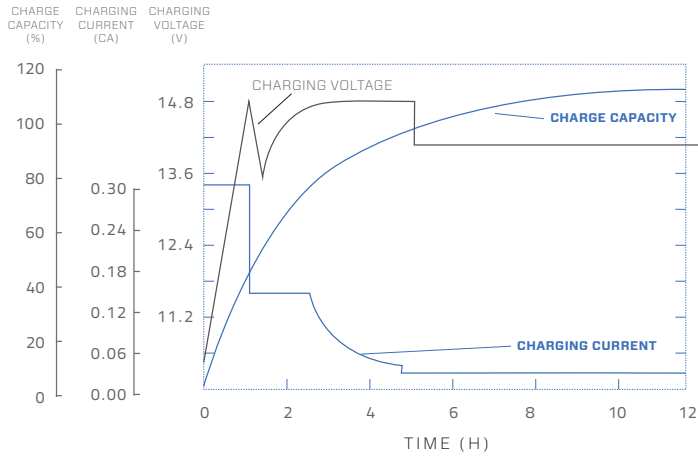


**CYCLE CHARGE CHARACTERISTIC (25°C)**

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

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

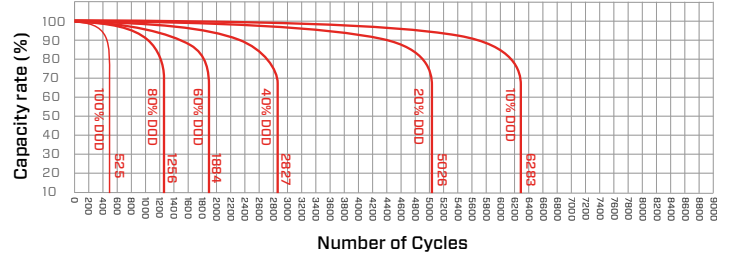
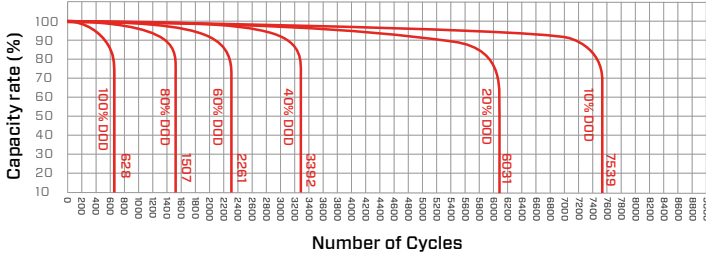
FLOATING CHARGE CHARACTERISTICS 77°F (25°C)



**CYCLE LIFE CURVE GRAPH**

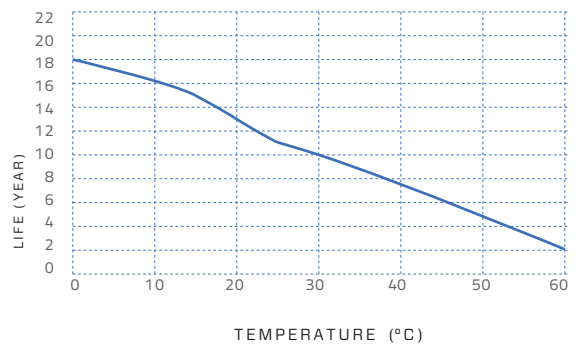
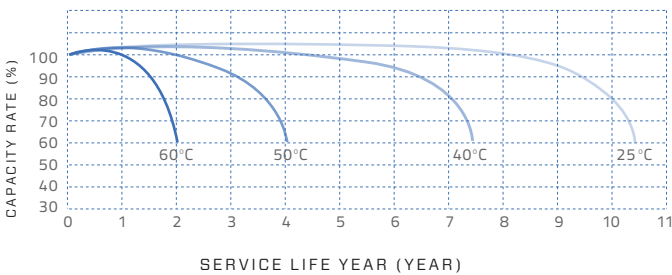
Cycle life curve graph (25°C) 12V

Cycle life curve graph (40°C) 12V

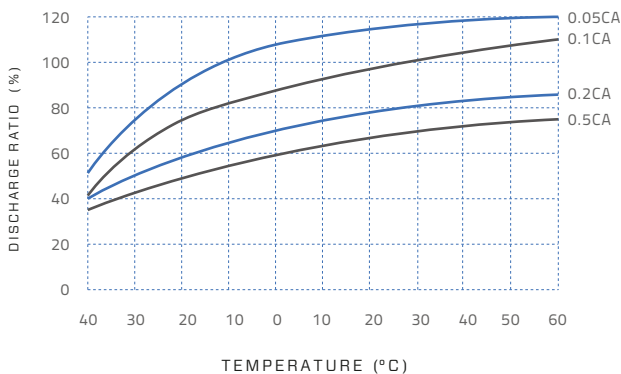


**TEMPERATURE & FLOAT SERVICE LIFE**

**FLOAT SERVICE LIFE CURVE GRAPH**



**TEMPERATURE & DISCHARGE CAPACITY**



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