



**SPECIFICATION**

Nominal Voltage	12V		
Rated Capacity (10 hour rate)	200 AH		
Dimension	Total Height (top of terminal)	223 mm	8.78"
	Height	219 mm	8.62"
	Length	522 mm	20.55"
	Width	240 mm	9.45"

Weight	Approximately 64 kg / 141.09 lbs		
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Capacity 25° C	120 hour rate (2.0A)	240 AH
	20 hour rate (11A)	220 AH
	10 hour rate (20A)	200 AH

Internal Resistance	Fully charged Battery (25° C)	3.5mΩ
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Self-Discharge 25° C	Capacity after 3 month storage	95%
	Capacity after 6 month storage	85%
	Capacity after 12 month storage	80%

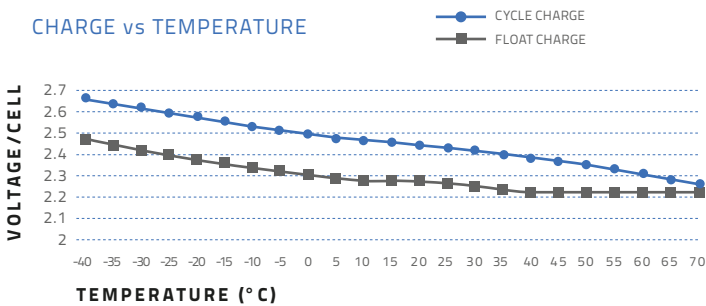
Max Discharge Current 25° C	2000A (5S)	
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Terminal	Standard	F4
	Optional	
Charging (Constant Voltage)	Cycle	Initial Charging Current 60A 14.7V/ (25 )
	Float	13.6V/ (25 )

**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 (voltage/cell)	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	733.92	388.40	234.68	171.09	137.80	78.95	57.34	44.97	38.36	32.60	24.86	20.69	17.37	11.31	9.24
1.67V	682.08	375.68	231.20	169.92	137.56	78.61	56.30	44.74	37.80	32.37	24.82	20.46	17.34	11.27	9.20
1.70V	675.12	369.92	228.88	167.63	136.42	77.92	55.95	44.51	37.22	32.02	24.74	20.46	17.28	11.24	9.19
1.75V	618.48	358.32	226.60	166.48	134.10	76.42	55.72	43.95	36.88	31.79	24.62	20.23	17.20	11.19	9.18
1.80V	554.88	335.20	217.32	161.84	130.64	75.26	55.49	43.82	36.42	31.45	24.51	20.00	17.11	10.81	9.16
1.83V	530.40	307.52	213.88	156.08	124.86	74.57	53.29	41.97	35.61	30.29	23.99	19.19	16.42	10.69	9.04
1.85V	497.04	298.24	200.00	150.29	121.38	71.56	51.91	41.39	34.68	29.29	23.70	18.96	16.18	10.58	8.96

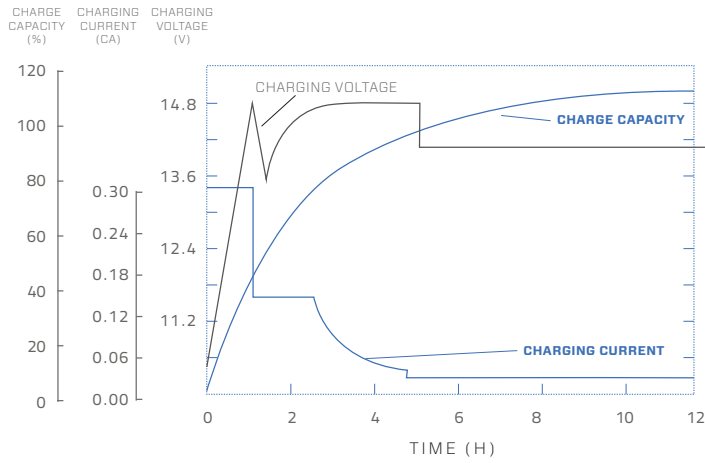
**DISCHARGE DATA WITH CONSTANT POWER UNITS: WATTS PER CELL (25° C)**

End Voltage per cell	5min	15min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	12h	20h	24h
1.60V	1226.39	681.99	439.25	320.19	257.57	149.11	109.00	86.35	72.94	62.65	48.32	40.00	33.64	22.43	18.38
1.67V	1167.46	671.58	421.49	317.88	257.77	149.11	107.62	86.23	72.94	62.54	48.32	39.88	33.64	22.42	18.38
1.70V	1160.52	666.96	421.28	317.88	255.44	147.96	107.38	85.91	71.78	62.07	47.97	39.53	33.29	22.31	18.38
1.75V	1080.77	658.86	421.75	317.87	254.30	146.80	107.16	85.77	71.55	61.61	47.74	39.27	33.29	22.31	18.26
1.80V	991.78	625.34	412.66	312.09	253.15	146.80	107.04	85.54	71.09	61.61	47.62	39.07	33.29	21.73	18.26
1.83V	957.09	574.49	409.20	302.85	242.74	145.65	104.03	82.65	70.28	59.65	47.62	37.91	32.71	21.50	18.15
1.85V	886.58	561.76	380.29	291.31	235.81	142.18	101.14	81.61	68.31	58.49	45.78	37.57	32.13	21.27	18.03



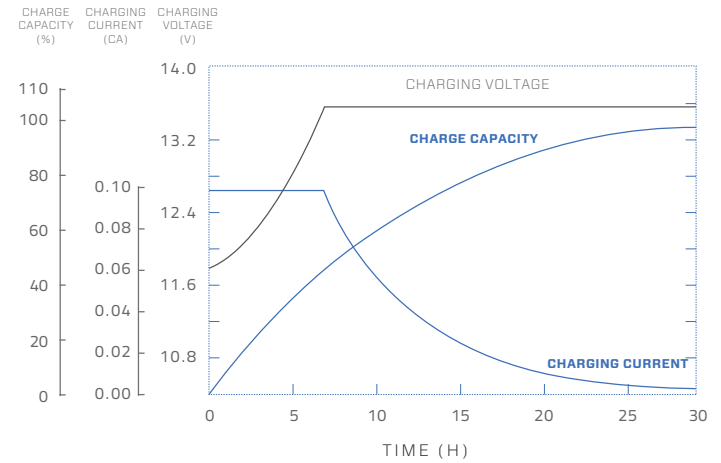
**CYCLE CHARGE CHARACTERISTIC (25°C)**

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



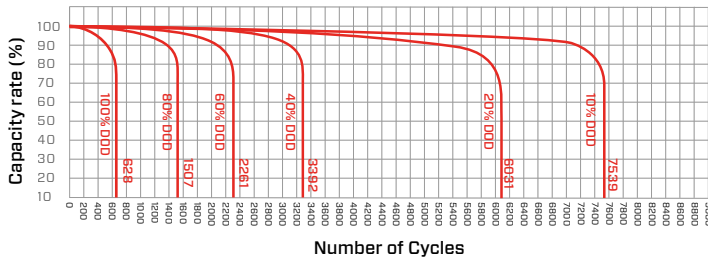
**FLOATING CHARGE CHARACTERISTIC (25°C)**

FLOATING CHARGE CHARACTERISTICS 77°F (25°C)

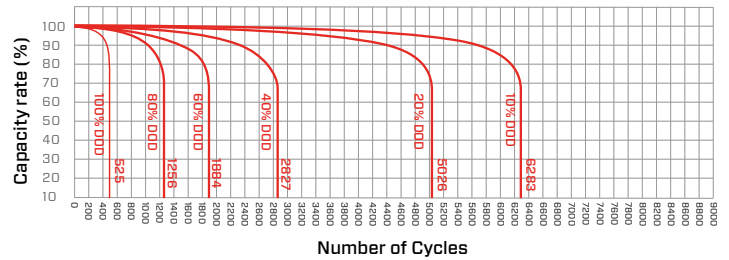


**CYCLE LIFE CURVE GRAPH**

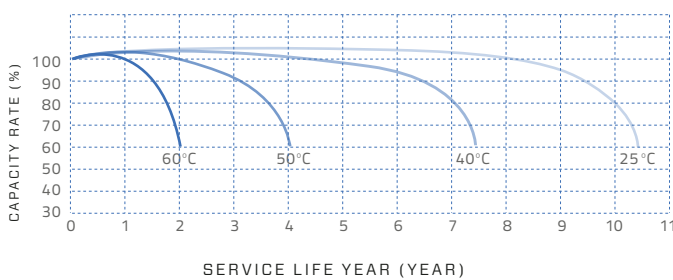
Cycle life curve graph (25°C) 12V



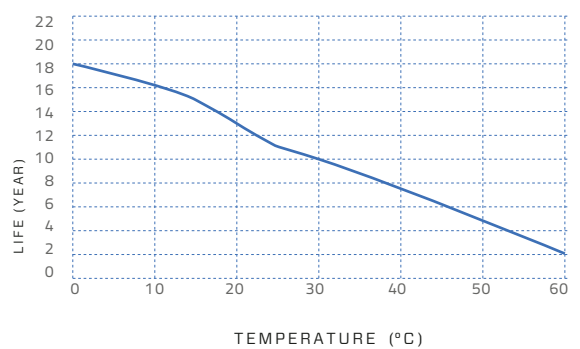
Cycle life curve graph (40°C) 12V



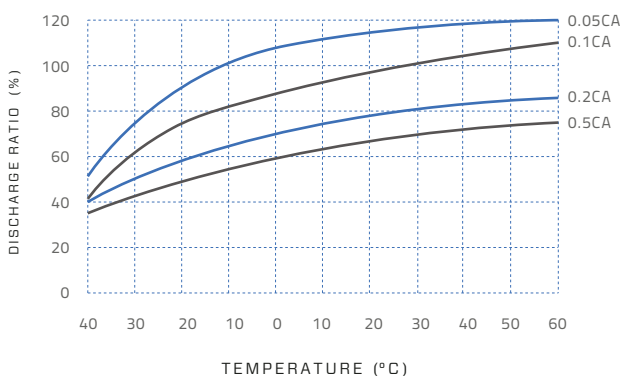
**TEMPERATURE & FLOAT SERVICE LIFE**



**FLOAT SERVICE LIFE CURVE GRAPH**



**TEMPERATURE & DISCHARGE CAPACITY**



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