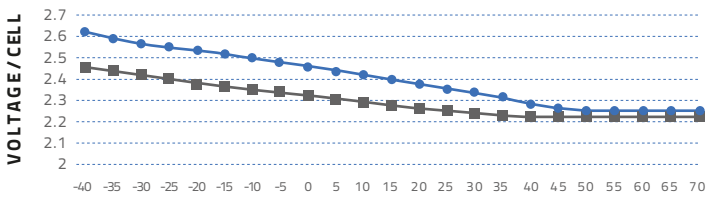




● CYCLE CHARGE  
■ FLOAT CHARGE

**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	2.61	2.59	2.57	2.55	2.53	2.51	2.49	2.47	2.45	2.43	2.41	2.39	2.37	2.35	2.33	2.31	2.29	2.27	2.25	2.25	2.25	2.25	2.25	2.25
Float Charge	2.45	2.43	2.42	2.40	2.39	2.37	2.36	2.34	2.33	2.31	2.30	2.28	2.27	2.25	2.24	2.22	2.21	2.21	2.21	2.21	2.21	2.21	2.21	2.21

**SPECIFICATION**

Nominal Voltage	12V		
Rated Capacity (3 hour rate)	40 AH		
Dimension	Total Height (top of terminal)	175 mm	6.88"
	Height	170 mm	6.69"
	Length	222 mm	8.74"
	Width	120 mm	4.72"
Weight	Approximately 12.5 kg / 27.55 lbs		
Capacity	10 hour rate (4.5A)	45 AH	
	5 hour rate (8.5A)	42.5 AH	
	2 hour rate (16A)	32 AH	
Internal Resistance	Fully charged Battery (25°C)	≈<9.0mΩ	
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	400A (5S)		
Terminal	Standard	F3	
	Optional		
Charging this battery (Constant Voltage)	Cycle	Initial Charging Current 8A 14.6V~14.7V (25°C)	
	Float	13.6V~13.7V (25°C)	

**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	121	77.6	51.1	38.5	26.6	16.6	13.5	10.7	9.00	8.21	6.19	4.73	3.98	2.49	2.09
1.67V	104	70.3	47.4	36.5	26.2	16.4	13.2	10.5	8.78	7.88	5.96	4.64	3.98	2.49	2.09
1.70V	100	68.2	45.9	36.0	26.0	16.2	13.1	10.2	8.66	7.54	5.79	4.59	3.98	2.48	2.08
1.75V	90.9	63.8	44.1	34.6	25.8	16.0	12.9	10.1	8.48	7.26	5.63	4.55	3.95	2.48	2.07
1.80V	80.4	58.5	42.4	33.3	25.7	15.8	12.6	9.95	8.33	7.20	5.49	4.50	3.86	2.48	2.07
1.83V	70.2	53.4	39.2	31.0	25.0	15.5	12.3	9.54	8.16	6.98	5.31	4.37	3.76	2.47	2.01
1.85V	60.0	48.4	36.0	28.7	24.3	15.3	11.8	9.18	7.99	6.75	5.13	4.24	3.65	2.46	1.95

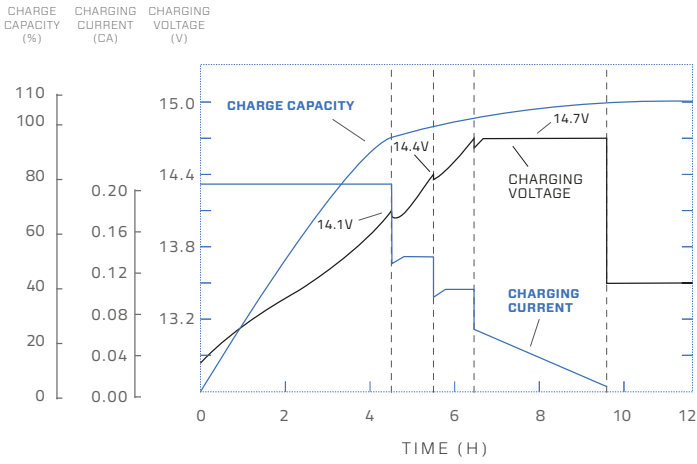
**DISCHARGE DATA WITH CONSTANT POWER UNITS: WATTS PER CELL (25°C)**

End Voltage per cell	5min	15min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	12h	20h	24h
1.60V	200	135	92.5	70.6	49.1	33.2	25.1	20.3	17.3	15.2	11.5	9.35	7.83	4.86	4.08
1.67V	179	125	86.3	67.0	49.0	32.2	25.0	20.2	16.7	15.0	11.2	9.13	7.83	4.86	4.08
1.70V	173	122	84.0	66.5	48.8	31.4	24.4	20.1	16.4	14.9	11.2	9.04	7.83	4.86	4.07
1.75V	159	115	81.2	64.4	48.7	30.3	24.0	19.8	16.0	14.7	11.0	8.95	7.83	4.86	4.07
1.80V	145	106	78.5	62.7	48.5	29.3	23.8	19.4	15.6	14.4	10.8	8.87	7.60	4.81	4.06
1.83V	127	98.0	73.4	58.7	48.3	28.3	23.6	18.8	15.1	14.0	10.4	8.64	7.42	4.81	3.96
1.85V	110	90.2	68.2	54.7	48.2	27.1	23.5	18.1	14.5	13.6	10.1	8.42	7.24	4.77	3.86



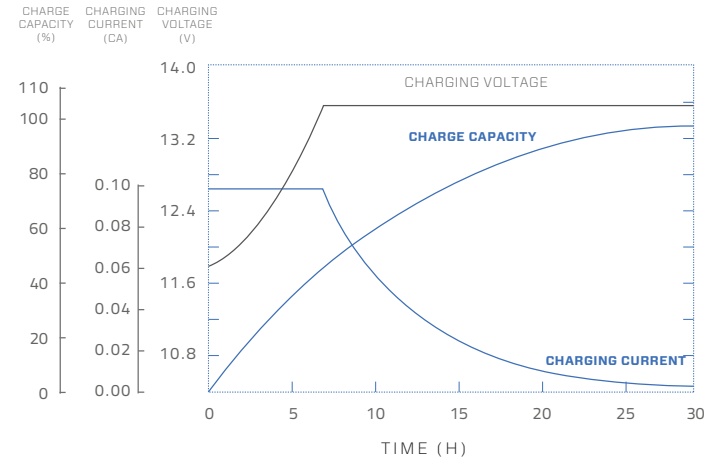
**CYCLE CHARGE CHARACTERISTIC 77°F (25°C)**

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



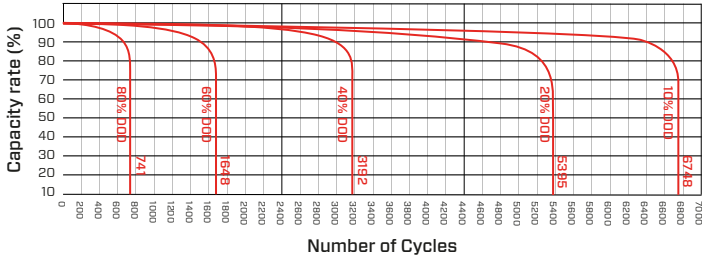
**FLOATING CHARGE CHARACTERISTIC (25°C)**

FLOATING CHARGE CHARACTERISTICS 77°F (25°C)

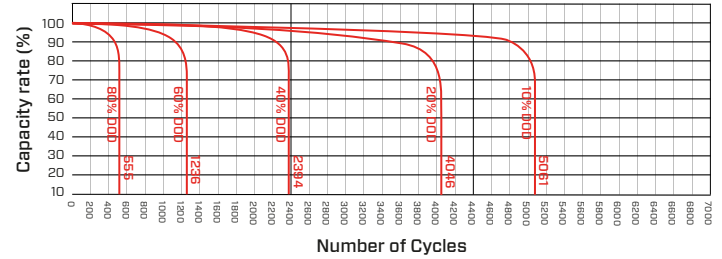


**CYCLE LIFE CURVE GRAPH**

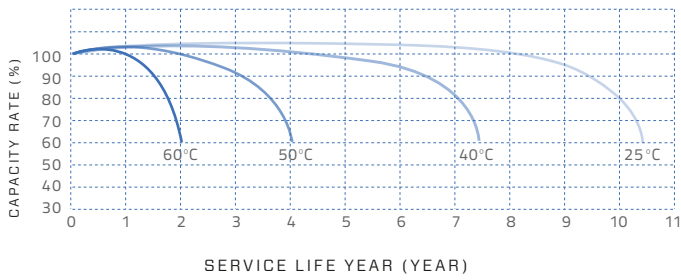
Cycle life curve graph (25°C)



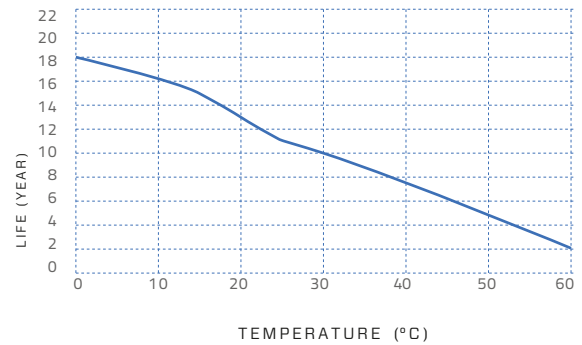
Cycle life curve graph (40°C)



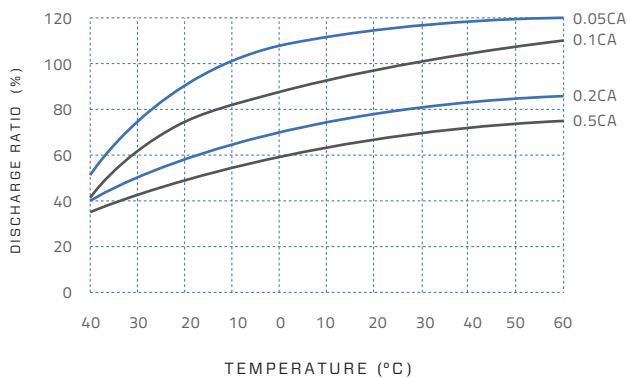
**TEMPERATURE AND FLOAT SERVICE LIFE**



**FLOAT SERVICE LIFE CURVE GRAPH**



**TEMPERATURE & DISCHARGE CAPACITY**



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