

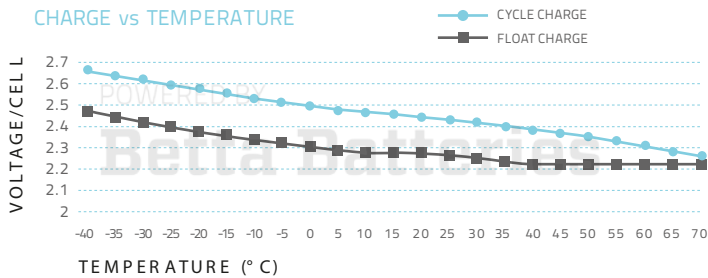
LEAD CRYSTAL[®] BATTERIES



DISCHARGE CURRENT AND END VOLTAGE

Discharge current (A)	End voltage (V)
0.05C or below or Intermittent discharge	5.70
0.05C of current close to it	5.55
0.1C of current close to it	5.40
0.2C of current close to it	5.25
From 0.2C to 0.5C	5.10
From 0.5C to 1C	4.80
From 1C to 3C	4.50
Current in excess of 3C	3.90

CHARGE vs TEMPERATURE



All Beta Batteries Lead Crystal Batteries cases are manufactured with UL94 V-2 rated ABS plastic. UL94 V-0 rated ABS cases are available via special order.

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	14.678	7.768	4.694	3.422	2.756	1.579	1.147	0.899	0.767	0.652	0.497	0.414	0.347	0.226	0.185
1.67V	13.642	7.514	4.624	3.398	2.751	1.572	1.126	0.895	0.756	0.647	0.496	0.409	0.347	0.225	0.184
1.70V	13.502	7.398	4.578	3.353	2.728	1.558	1.119	0.890	0.744	0.640	0.495	0.409	0.346	0.225	0.184
1.75V	12.370	7.166	4.532	3.330	2.682	1.528	1.114	0.879	0.738	0.636	0.492	0.405	0.344	0.224	0.184
1.80V	11.098	6.704	4.346	3.237	2.613	1.505	1.110	0.876	0.728	0.629	0.490	0.400	0.342	0.216	0.183
1.83V	10.608	6.150	4.278	3.122	2.497	1.491	1.066	0.839	0.712	0.606	0.480	0.384	0.328	0.214	0.181
1.85V	9.941	5.965	4.000	3.006	2.428	1.431	1.038	0.828	0.694	0.586	0.474	0.379	0.324	0.212	0.179

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	24.528	13.640	8.785	6.404	5.151	2.982	2.180	1.727	1.459	1.253	0.966	0.800	0.673	0.449	0.368
1.67V	23.349	13.432	8.430	6.358	5.155	2.982	2.152	1.725	1.459	1.251	0.966	0.798	0.673	0.448	0.368
1.70V	23.210	13.339	8.426	6.358	5.109	2.959	2.148	1.718	1.436	1.241	0.959	0.791	0.666	0.446	0.368
1.75V	21.615	13.177	8.435	6.357	5.086	2.936	2.143	1.715	1.431	1.232	0.955	0.785	0.666	0.446	0.365
1.80V	19.836	12.507	8.253	6.242	5.063	2.936	2.141	1.711	1.422	1.232	0.952	0.781	0.666	0.435	0.365
1.83V	19.142	11.490	8.184	6.057	4.855	2.913	2.081	1.653	1.406	1.193	0.952	0.758	0.654	0.430	0.363
1.85V	17.732	11.235	7.606	5.826	4.716	2.844	2.023	1.632	1.366	1.170	0.916	0.751	0.643	0.425	0.361

POWERED BY

Betta Batteries

3-CNFJ-4 6V/4Ah

Ver. 1902-1

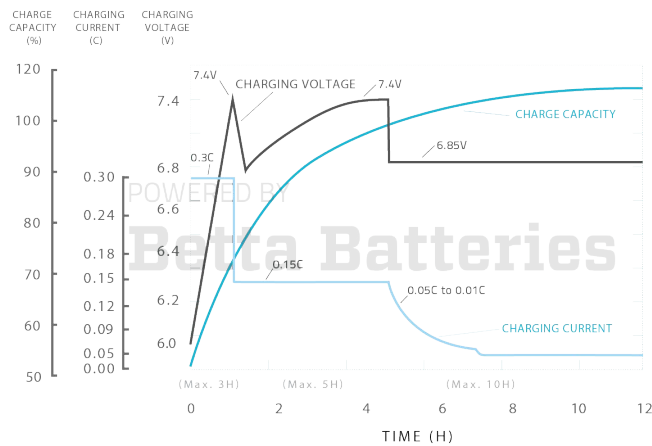
This battery MUST be charged and maintained in accordance with the datasheet & user manual. Charge currents MUST be according to the following, during boost phase - CNFJ & CNFT - 0.3C @ C10 rate (or 30% of the C10 rated Capacity) - Incorrect charging may void or reduce your warranty.

SPECIFICATION

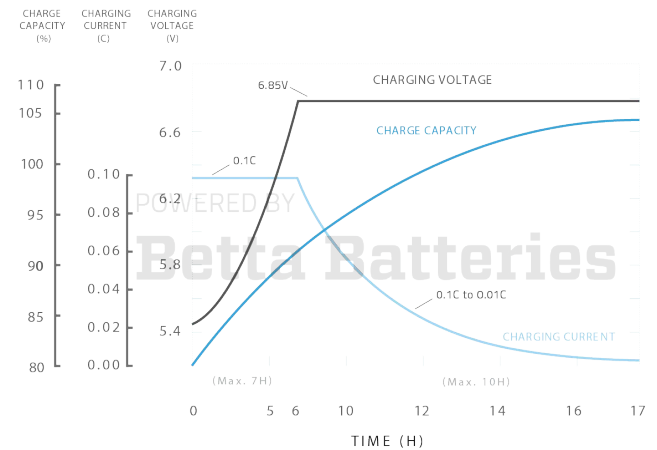
Nominal Voltage		6V	
Rated Capacity (10 hour rate)		4 AH	
Dimension	Total Height (top of terminal)	105 mm	4.13"
	Height	100 mm	3.94"
	Length	70 mm	2.76"
	Width	47.5 mm	1.87"
Weight		Approximately 0.70 kg / 1.54 lbs	
Capacity 25°C	120 hour rate (40mA)	4.8 AH	
	20 hour rate (230mA)	4.6 AH	
	10 hour rate (400mA)	4 AH	
Internal Resistance	Fully charged Battery (25°C)	16mΩ	
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	40A (5S)		
Terminal	Standard	F1	
	Optional	F2	
Charging this battery (Constant Voltage)	Cyclic Application	Initial Charging Current 1.2A 7.4V / (25°C)	
	Float Application	6.8V / (25°C)	

CYCLE CHARGE CHARACTERISTIC (25°C)

REGULAR CYCLE CHARGE CHARACTERISTICS - 77°F (25°C) 50% DOD (6V) @ C10

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

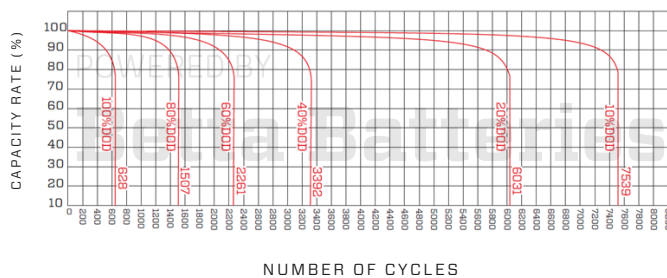
FLOAT CHARGE CHARACTERISTICS - 77°F (25°C) 80% DOD (6V) @ C10



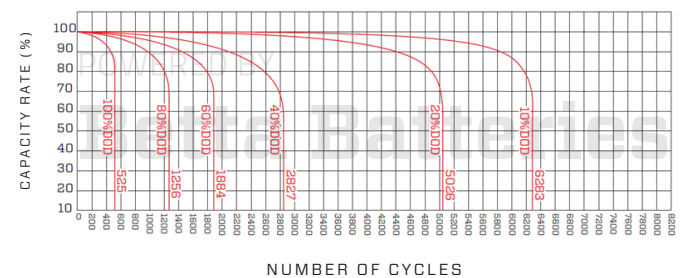
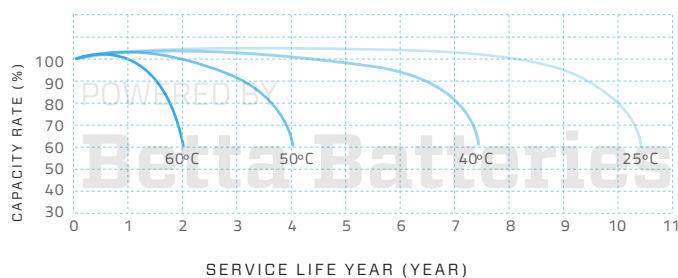
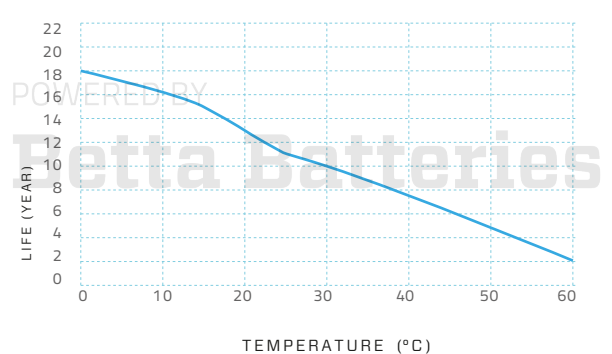
This battery **MUST** be charged and maintained in accordance with the datasheet & user manual. Charge currents **MUST** be according to the following, during boost phase - CNFJ & CNFT - 0.3C @ C10 rate (or 30% of the C10 rated Capacity) - Incorrect charging may void or reduce your warranty.

CYCLE LIFE CURVE GRAPH

CYCLE LIFE CURVE GRAPH (25°C)



CYCLE LIFE CURVE GRAPH (40°C)

**TEMPERATURE & FLOAT SERVICE LIFE****FLOAT SERVICE LIFE CURVE GRAPH****TEMPERATURE & DISCHARGE CAPACITY**