

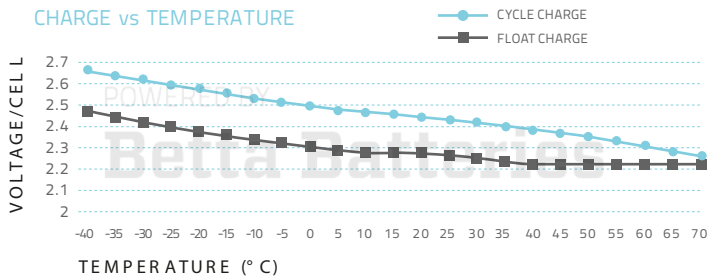
LEAD CRYSTAL® BATTERIES



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	2.27	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	26.421	13.982	8.448	6.159	4.961	2.842	2.064	1.619	1.381	1.174	0.895	0.745	0.625	0.407	0.333
1.67V	24.555	13.524	8.323	6.117	4.952	2.830	2.027	1.611	1.361	1.165	0.894	0.737	0.624	0.406	0.331
1.70V	24.304	13.317	8.240	6.035	4.911	2.805	2.014	1.602	1.340	1.153	0.891	0.737	0.622	0.405	0.331
1.75V	22.265	12.900	8.158	5.993	4.828	2.751	2.006	1.582	1.328	1.145	0.886	0.728	0.619	0.403	0.330
1.80V	19.976	12.067	7.824	5.826	4.703	2.709	1.998	1.577	1.311	1.132	0.882	0.720	0.616	0.389	0.330
1.83V	19.094	11.071	7.700	5.619	4.495	2.684	1.919	1.511	1.282	1.090	0.864	0.691	0.591	0.385	0.325
1.85V	17.893	10.737	7.200	5.411	4.370	2.576	1.869	1.490	1.249	1.054	0.853	0.683	0.583	0.381	0.323

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	44.150	24.552	15.813	11.527	9.273	5.368	3.924	3.108	2.626	2.255	1.739	1.440	1.211	0.807	0.662
1.67V	42.029	24.177	15.174	11.444	9.280	5.368	3.874	3.104	2.626	2.251	1.739	1.436	1.211	0.807	0.662
1.70V	41.779	24.010	15.166	11.444	9.196	5.326	3.866	3.093	2.584	2.235	1.727	1.423	1.198	0.803	0.662
1.75V	38.908	23.719	15.183	11.443	9.155	5.285	3.858	3.088	2.576	2.218	1.719	1.414	1.198	0.803	0.657
1.80V	35.704	22.512	14.856	11.235	9.113	5.285	3.853	3.079	2.559	2.218	1.714	1.407	1.198	0.782	0.657
1.83V	34.455	20.681	14.731	10.903	8.739	5.243	3.745	2.975	2.530	2.147	1.714	1.365	1.178	0.774	0.653
1.85V	31.917	20.224	13.691	10.487	8.489	5.118	3.641	2.938	2.459	2.106	1.648	1.352	1.157	0.766	0.649

POWERED BY

Betta Batteries

3-CNFJ-7.2 6V / 7.2 Ah

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)		7.2 AH	
Dimension	Total Height (top of terminal)	100 mm	3.94"
	Height	94 mm	3.7"
	Length	151 mm	5.94"
	Width	35 mm	1.38"
Weight		Approximately 1.2 kg / 2.64 lbs	
Capacity 25°C	120 hour rate (70mA)	8.4 AH	
	20 hour rate (390mA)	7.8 AH	
	10 hour rate (720mA)	7.2 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	72A (5S)		
Terminal	Standard	F1	
	Optional	F2	
Charging this battery (Constant Voltage)	Cyclic Application	Initial Charging Current 2.16A 7.4V / (25°C)	
	Float Application	6.8V / (25°C)	

The graph illustrates the relationship between temperature and discharge ratio for Delta Batteries. The x-axis represents temperature in degrees Celsius, ranging from 40 to -60. The y-axis represents the discharge ratio in percent, ranging from 0 to 120. Four curves are shown, corresponding to different discharge rates: 0.05CA (topmost, blue), 0.1CA (black), 0.2CA (blue), and 0.5CA (bottommost, black). All curves show an increase in discharge ratio as temperature increases. The 0.05CA curve starts at approximately 50% at 40°C and reaches 120% at 60°C. The 0.1CA curve starts at approximately 35% at 40°C and reaches 110% at 60°C. The 0.2CA curve starts at approximately 40% at 40°C and reaches 85% at 60°C. The 0.5CA curve starts at approximately 35% at 40°C and reaches 75% at 60°C.

Temperature (°C)	0.05CA (%)	0.1CA (%)	0.2CA (%)	0.5CA (%)
40	50	35	40	35
30	75	60	50	45
20	95	75	60	55
10	105	85	65	60
0	110	90	70	65
10	115	95	75	68
20	118	100	80	70
30	120	105	82	72
40	120	108	84	74
50	120	110	85	75
60	120	110	85	75