

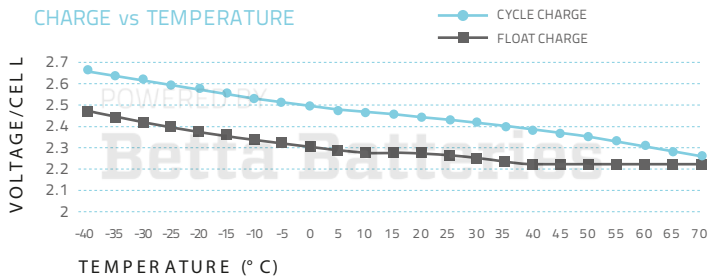
LEAD CRYSTAL[®] BATTERIES



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	587.14	310.72	187.74	136.87	110.24	63.16	45.87	35.98	30.68	26.08	19.88	16.56	13.89	9.04	7.39
1.67V	545.66	300.54	184.96	135.94	110.05	62.89	45.04	35.79	30.24	25.90	19.86	16.37	13.87	9.02	7.36
1.70V	540.10	295.94	183.10	134.10	109.14	62.34	44.76	35.60	29.78	25.62	19.79	16.37	13.83	8.99	7.35
1.75V	494.78	286.66	181.28	133.18	107.28	61.13	44.58	35.16	29.50	25.43	19.70	16.19	13.76	8.95	7.34
1.80V	443.90	268.16	173.86	129.47	104.51	60.21	44.39	35.05	29.13	25.16	19.61	16.00	13.69	8.65	7.32
1.83V	424.32	246.02	171.10	124.86	99.89	59.65	42.63	33.57	28.49	24.23	19.19	15.35	13.13	8.56	7.23
1.85V	397.63	238.59	160.00	120.23	97.10	57.25	41.53	33.11	27.75	23.43	18.96	15.17	12.95	8.46	7.17

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	981.11	545.59	351.40	256.15	206.06	119.29	87.20	69.08	58.35	50.12	38.65	32.00	26.91	17.94	14.70
1.67V	933.97	537.27	337.19	254.30	206.21	119.29	86.09	68.99	58.35	50.03	38.65	31.90	26.91	17.94	14.70
1.70V	928.42	533.56	337.03	254.30	204.35	118.36	85.91	68.73	57.43	49.66	38.38	31.62	26.63	17.85	14.70
1.75V	864.62	527.09	337.40	254.30	203.44	117.44	85.72	68.61	57.24	49.29	38.19	31.41	26.63	17.85	14.61
1.80V	793.43	500.27	330.13	249.67	202.52	117.44	85.63	68.43	56.87	49.29	38.10	31.26	26.63	17.38	14.61
1.83V	765.67	459.59	327.36	242.28	194.19	116.52	83.22	66.12	56.22	47.72	38.10	30.33	26.17	17.20	14.52
1.85V	709.26	449.41	304.23	233.04	188.65	113.74	80.91	65.29	54.65	46.79	36.62	30.05	25.71	17.01	14.43

POWERED BY

Beta Batteries

3-CNFJ-160 6V/160 Ah

Ver. 1902-1

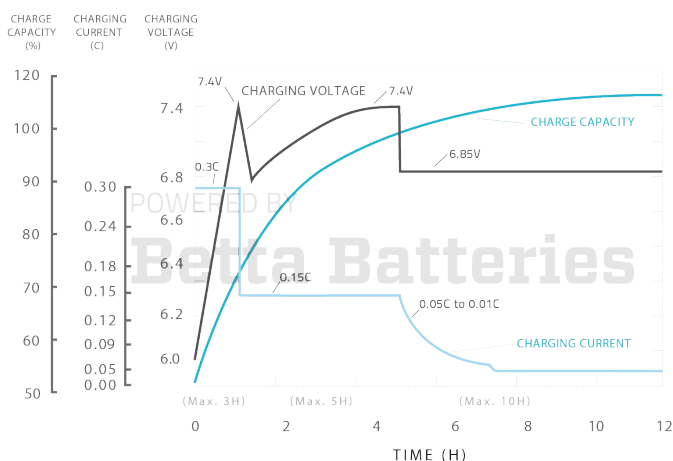
This battery **MUST** be charged and maintained in accordance with the datasheet & user manual. Charge currents **MUST** be according to the following, during boost phase - CNFJ & CNFT - 0.3C @ C10 rate (or 30% of the C10 rated Capacity) - Incorrect charging may void or reduce your warranty.

SPECIFICATION

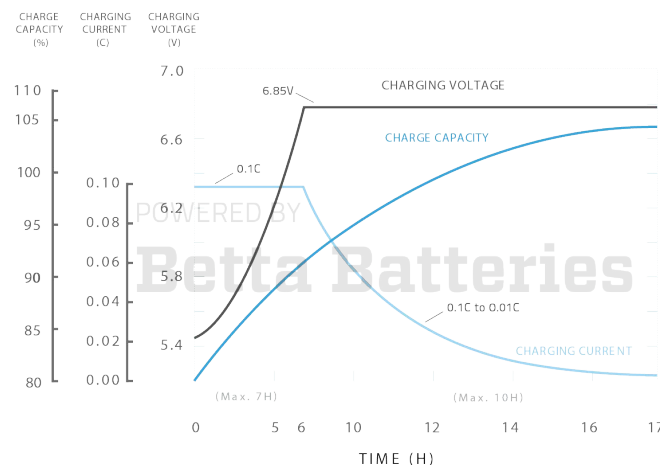
Nominal Voltage		6V	
Rated Capacity (10 hour rate)		160 AH	
Dimension	Total Height (top of terminal)	230 mm	9.06"
	Height	227 mm	8.94"
	Length	298 mm	11.73"
	Width	172 mm	6.77"
Weight		Approximately 25.5 kg / 56.21 lbs	
Capacity 25°C	120 hour rate (1.6A)	192 AH	
	20 hour rate (8.75A)	175 AH	
	10 hour rate (16A)	160 AH	
Internal Resistance	Fully charged Battery (25°C)	2mΩ	
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	1600A (5S)		
Terminal	Standard	F3	
	Optional		
Charging this battery (Constant Voltage)	Cyclic Application	Initial Charging Current 48A 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)**

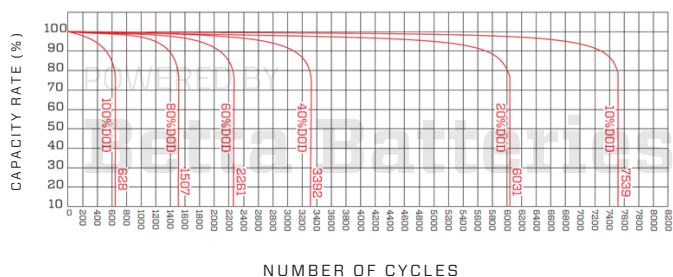
FLOAT CHARGE CHARACTERISTICS - 77°F (25°C) 80% DOD (6V) @ C10



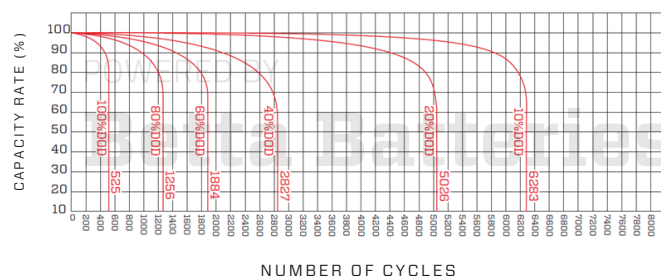
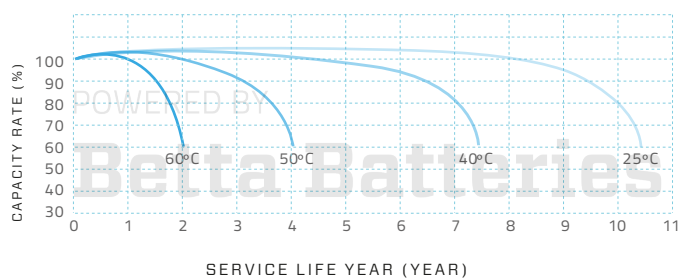
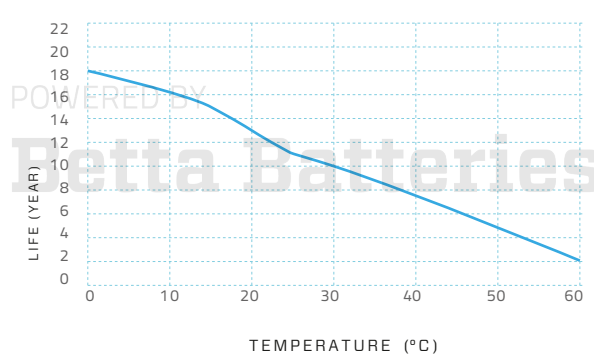
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CYCLE LIFE CURVE GRAPH

CYCLE LIFE CURVE GRAPH (25°C)



CYCLE LIFE CURVE GRAPH (40°C)

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