

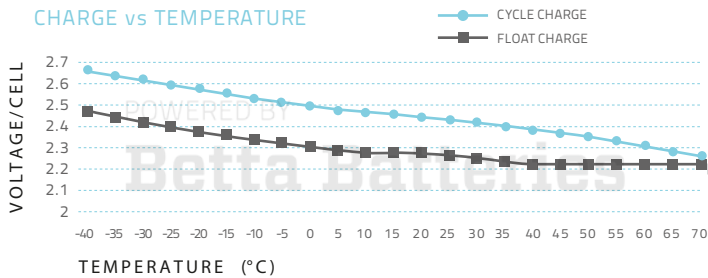
LEAD CRYSTAL® BATTERIES



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



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	550.44	291.30	176.01	128.32	103.35	59.21	43.01	33.73	28.77	24.45	18.64	15.52	13.03	8.48	6.93
1.67V	511.56	281.76	173.40	127.44	103.17	58.96	42.23	33.56	28.35	24.28	18.62	15.35	13.01	8.45	6.90
1.70V	506.34	277.44	171.66	125.72	102.32	58.44	41.97	33.38	27.92	24.02	18.55	15.35	12.96	8.43	6.89
1.75V	463.86	268.74	169.95	124.86	100.58	57.31	41.79	32.96	27.66	23.84	18.47	15.17	12.90	8.39	6.88
1.80V	416.16	251.40	162.99	121.38	97.98	56.45	41.62	32.86	27.31	23.58	18.38	15.00	12.83	8.11	6.87
1.83V	397.80	230.64	160.41	117.06	93.65	55.92	39.97	31.47	26.71	22.72	17.99	14.39	12.31	8.02	6.78
1.85V	372.78	223.68	150.00	112.72	91.04	53.67	38.93	31.04	26.01	21.97	17.78	14.22	12.14	7.93	6.72

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	919.79	511.49	329.44	240.14	193.18	111.83	81.75	64.76	54.70	46.99	36.24	30.00	25.23	16.82	13.78
1.67V	875.59	503.69	316.12	238.41	193.33	111.83	80.71	64.67	54.70	46.90	36.24	29.91	25.23	16.82	13.78
1.70V	870.39	500.22	315.96	238.41	191.58	110.97	80.54	64.43	53.84	46.55	35.98	29.65	24.97	16.73	13.78
1.75V	810.58	494.15	316.31	238.41	190.73	110.10	80.37	64.33	53.66	46.21	35.80	29.45	24.97	16.73	13.70
1.80V	743.84	469.00	309.49	234.07	189.86	110.10	80.28	64.15	53.32	46.21	35.72	29.30	24.97	16.30	13.70
1.83V	717.82	430.86	306.90	227.14	182.06	109.23	78.02	61.99	52.71	44.73	35.72	28.44	24.53	16.13	13.61
1.85V	664.93	421.32	285.22	218.48	176.86	106.63	75.86	61.21	51.24	43.87	34.33	28.18	24.10	15.95	13.52

POWERED BY

Betta Batteries

6- CNFJ-150 12V / 150 Ah

Ver. 1902-1

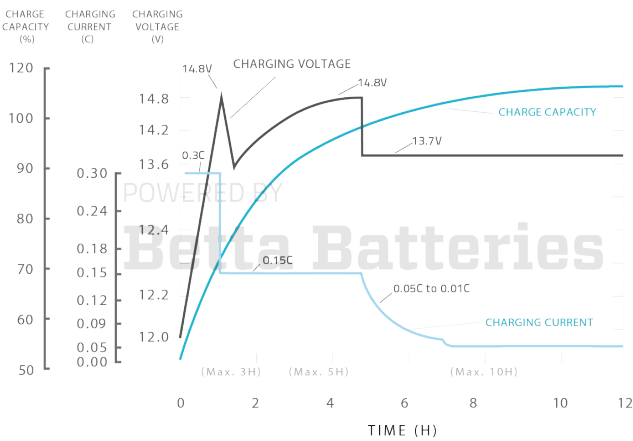
This battery MUST be charged and maintained in accordance with the datasheet & user manual. Charge currents MUST be according to the following, during boost phase - CNFJ & CNFT - 0.3C @ C10 rate (or 30% of the C10 rated Capacity) - Incorrect charging may void or reduce your warranty.

SPECIFICATION

Nominal Voltage		12V	
Rated Capacity (10 hour rate)		150 AH	
Dimension	Total Height (top of terminal)	241 mm	9.49"
	Height	241 mm	9.49"
	Length	486 mm	19.13"
	Width	170 mm	6.69"
Weight		Approximately 45kg / 99.20 lbs	
Capacity 25°C	120 hour rate (1.5A)	180 AH	
	20 hour rate (8.1A)	162 AH	
	10 hour rate (15A)	150 AH	
Internal Resistance	Fully charged Battery (25°C)	4mΩ	
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	1500A (5S)		
Terminal	Standard	F4	
	Optional		
Charging this battery (Constant Voltage)	Cyclic Application	Initial Charging Current 45A 14.7V/ (25°C)	
	Float Application	13.6V/ (25°C)	

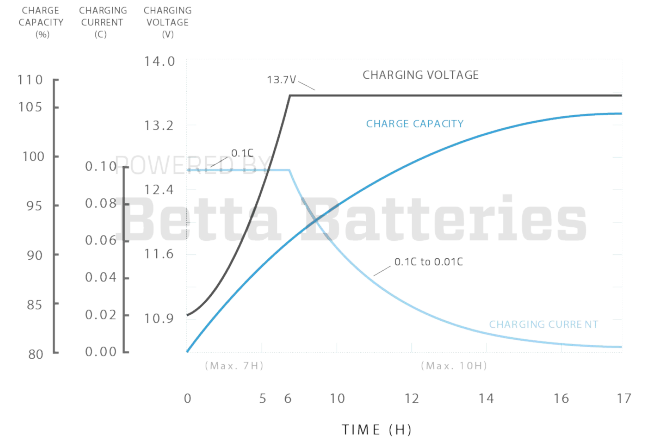
CYCLE CHARGE CHARACTERISTIC (25°C)

REGULAR CYCLE CHARGE CHARACTERISTICS - 77°F (25°C) 50% DOD (12V) @ C10



FLOATING CHARGE CHARACTERISTIC (25°C)

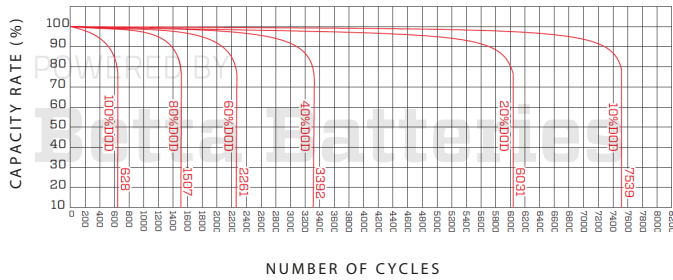
FLOATING CHARGE CHARACTERISTICS - 77°F (25°C) 80% DOD (12V) @ C10



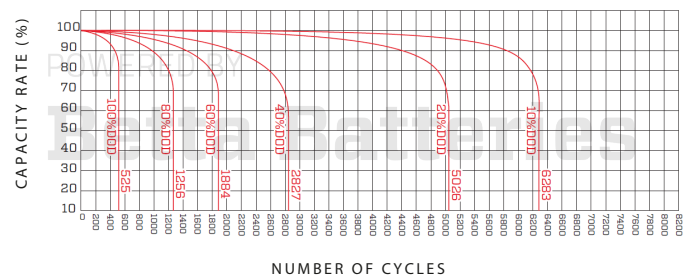
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CYCLE LIFE CURVE GRAPH

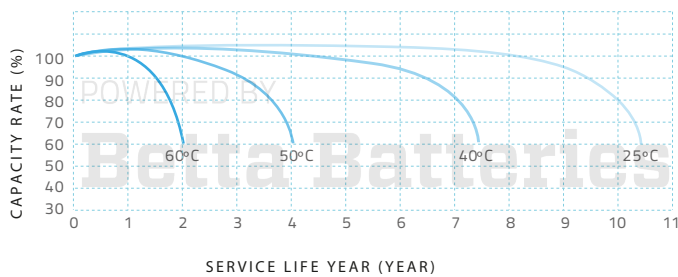
CYCLE LIFE CURVE GRAPH (25°C)



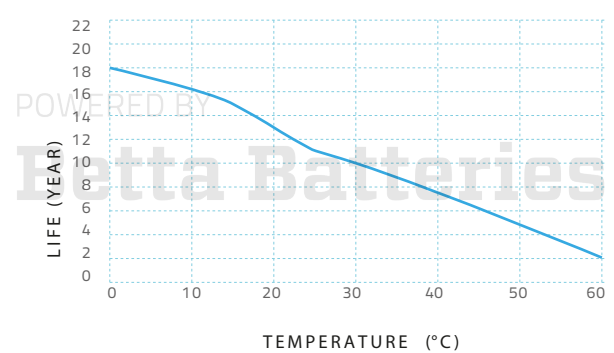
CYCLE LIFE CURVE GRAPH (40°C)



TEMPERATURE & FLOAT SERVICE LIFE



FLOAT SERVICE LIFE CURVE GRAPH



TEMPERATURE & DISCHARGE CAPACITY

