

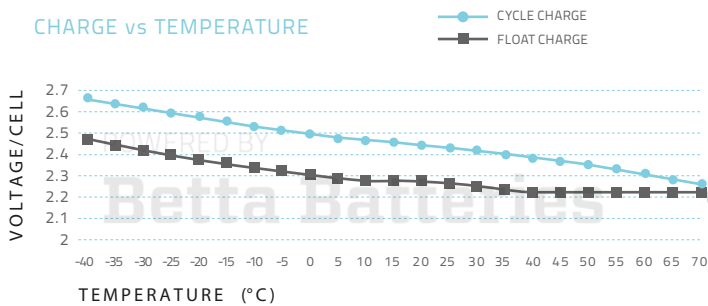
LEAD CRYSTAL[®] BATTERIES



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



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	51.37	27.19	16.43	11.98	9.65	5.53	4.01	3.15	2.68	2.28	1.74	1.45	1.22	0.79	0.65
1.67V	47.75	26.30	16.18	11.89	9.63	5.50	3.94	3.13	2.65	2.27	1.74	1.43	1.21	0.79	0.64
1.70V	47.26	25.89	16.02	11.73	9.55	5.45	3.92	3.12	2.61	2.24	1.73	1.43	1.21	0.79	0.64
1.75V	43.29	25.08	15.86	11.65	9.39	5.35	3.90	3.08	2.58	2.23	1.72	1.42	1.20	0.78	0.64
1.80V	38.84	23.46	15.21	11.33	9.14	5.27	3.88	3.07	2.55	2.20	1.72	1.40	1.20	0.76	0.64
1.83V	37.13	21.53	14.97	10.93	8.74	5.22	3.73	2.94	2.49	2.12	1.68	1.34	1.15	0.75	0.63
1.85V	34.79	20.88	14.00	10.52	8.50	5.01	3.63	2.90	2.43	2.05	1.66	1.33	1.13	0.74	0.63

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	85.85	47.74	30.75	22.41	18.03	10.44	7.63	6.04	5.11	4.39	3.38	2.80	2.35	1.57	1.29
1.67V	81.72	47.01	29.50	22.25	18.04	10.44	7.53	6.04	5.11	4.38	3.38	2.79	2.35	1.57	1.29
1.70V	81.24	46.69	29.49	22.25	17.88	10.36	7.52	6.01	5.02	4.35	3.36	2.77	2.33	1.56	1.29
1.75V	75.65	46.12	29.52	22.25	17.80	10.28	7.50	6.00	5.01	4.31	3.34	2.75	2.33	1.56	1.28
1.80V	69.42	43.77	28.89	21.85	17.72	10.28	7.49	5.99	4.98	4.31	3.33	2.73	2.33	1.52	1.28
1.83V	67.00	40.21	28.64	21.20	16.99	10.20	7.28	5.79	4.92	4.18	3.33	2.65	2.29	1.51	1.27
1.85V	62.06	39.32	26.62	20.39	16.51	9.95	7.08	5.71	4.78	4.09	3.20	2.63	2.25	1.49	1.26

POWERED BY

Betta Batteries

6- CNFJ-14 12V / 14Ah

Ver. 1902-1

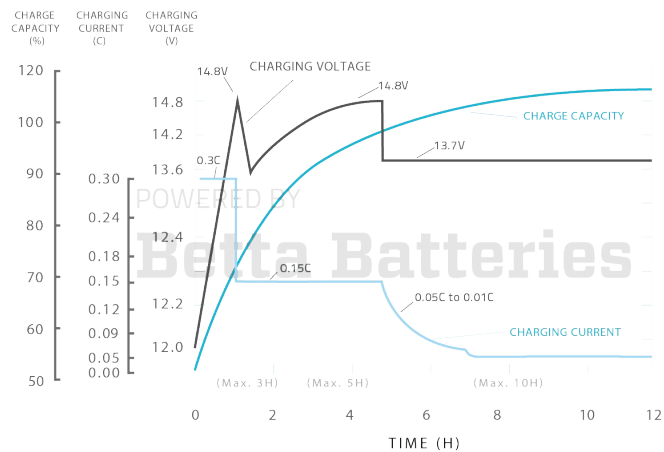
This battery MUST be charged and maintained in accordance with the datasheet & user manual. Charge currents MUST be according to the following, during boost phase - CNFJ & CNFT - 0.3C @ C10 rate (or 30% of the C10 rated Capacity) - Incorrect charging may void or reduce your warranty.

SPECIFICATION

Nominal Voltage		12V	
Rated Capacity (10 hour rate)		14 AH	
Dimension	Total Height (top of terminal)	104 mm	4.09"
	Height	98 mm	3.86"
	Length	151 mm	5.94"
	Width	99 mm	3.9"
Weight		Approximately 4.35 kg / 9.59 lbs	
Capacity 25°C	120 hour rate (141mA)	16.9 AH	
	20 hour rate (775A)	15.5 AH	
	10 hour rate (1.4A)	14 AH	
Internal Resistance	Fully charged Battery (25°C)	12mΩ	
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	120A (5S)		
Terminal	Standard	F6	
	Optional		
Charging this battery (Constant Voltage)	Cyclic Application	Initial Charging Current 4.2A 14.7V/ (25°C)	
	Float Application	13.6V/ (25°C)	

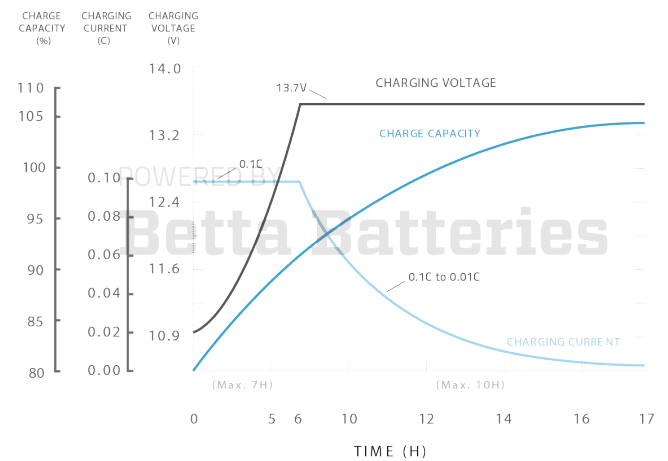
CYCLE CHARGE CHARACTERISTIC (25°C)

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



FLOATING CHARGE CHARACTERISTIC (25°C)

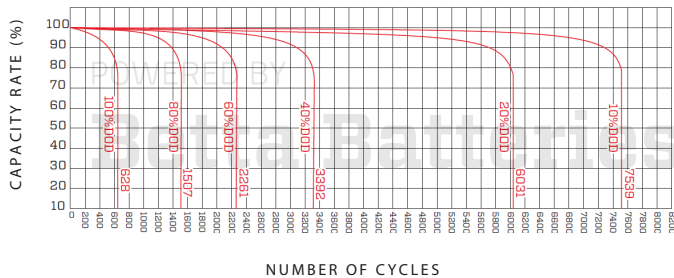
FLOATING CHARGE CHARACTERISTICS - 77°F (25°C) 80% DOD (12V) @ C10



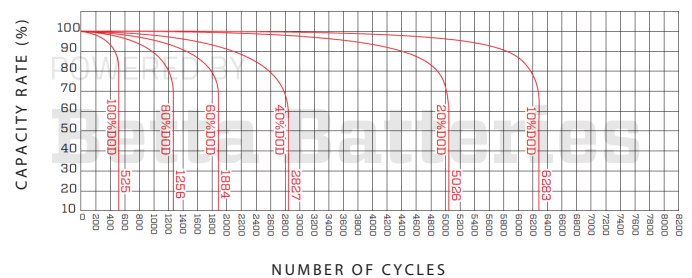
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CYCLE LIFE CURVE GRAPH

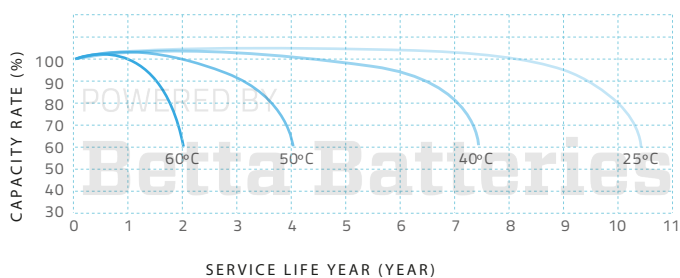
CYCLE LIFE CURVE GRAPH (25°C)



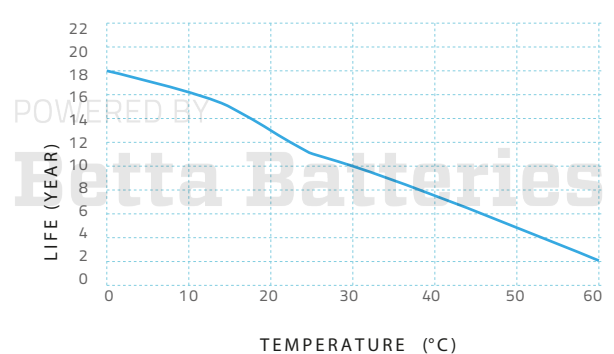
CYCLE LIFE CURVE GRAPH (40°C)



TEMPERATURE & FLOAT SERVICE LIFE



FLOAT SERVICE LIFE CURVE GRAPH



TEMPERATURE & DISCHARGE CAPACITY

