CFT100-12

12V 100AH

Front Terminal Battery

CANBAT

CFT100-12

Physical Specification

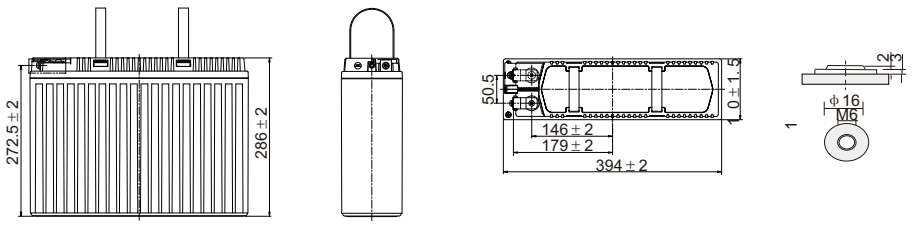
Part Number:	**CFT100-12**
Length:	**394 ±2 mm (15.5 inches)**
Width:	**110 ±2 mm (4.33 inches)**
Container Height:	**286 ±2 mm (11.3 inches)**
Total Height (with terminal):	**286 ±2 mm (11.3 inches)**
Approx Weight:	**31.5 Kg (69.4 lbs)**

Specifications

	Nominal Voltage	12V
	(C10,1.80V/cell)	100AH
Terminal Option	M6	
Container Material	Standard Option	ABS
	Flame Retardant Option (FR)	ABS (UL94:VO)
Rated Capacity	(20hr,5.27A,1.80V/cell)	105.4 Ah
	(10hr,10.0A,1.80V/cell)	100.0 Ah
	(8hr,12.1A,1.75V/cell)	96.8 Ah
	(5hr,17.3A,1.75V/cell)	86.5 Ah
	(1hr,63.4A,1.67V/cell)	63.4 Ah
Max Discharge Current (5s)	1000A	
Internal Resistance	Approx. 4.5 mΩ	
Discharge Characteristics	Operating Temp. Range	Discharge: -15°C~50°C (5°F~122°F)
		Charge: 0°C~40°C (32°F~104°F)
		Storage: -15°C~40°C (5°F~104°F)
	Nominal Operating Temp. Range	25 ± 3°C (77 ± 5°F)
	Cycle Use	Initial Charging Current less than 30.0 A. Voltage 14.1V~14.4V at 25°C (77°F) Temp. Coefficient -30mV/°C
	Standby Use	Initial Charging Current less than 30.0 A. Voltage 13.5V~13.8V at 25°C (77°F) Temp. Coefficient -20mV/°C
	Capacity affected by Temperature	40°C (104°F) 103%
		25°C (77°F) 100%
		0°C (32°F) 86%
Design Floating Life at 20°C	12+ Years	
Self Discharge	Canbat Front Terminal batteries may be stored for up to 6 months at 25°C (77°F) and then a refresh charge is required. For higher temperatures the time interval will be shorter. Self-discharge is less than 2%	

Dimensions

M6 Terminal



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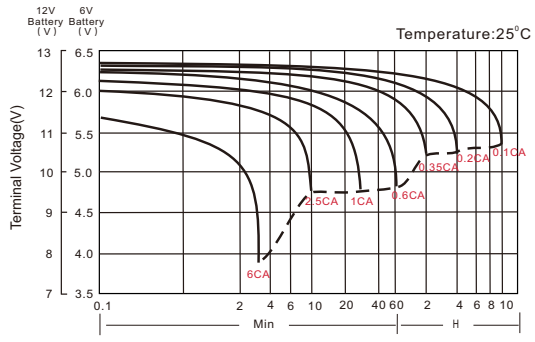
Constant Current Discharge (Amperes) at 25 °C (77°F)

F.V/Time	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	151.7	128. 1	117.9	82. 7	74.2	52. 2	31. 3	23. 6	18. 8	15. 7	13.5	11. 1	9. 32	4. 91
1.80V/cell	172.3	149. 0	129.0	93. 6	78.6	57. 7	34. 1	25. 6	20. 3	16. 9	14.3	11. 9	10. 0	5. 27
1.75V/cell	189.8	157. 6	137.1	97. 8	81.6	59. 9	35. 1	26. 2	20. 8	17. 3	14.4	12. 1	10. 1	5. 29
1.70V/cell	204.3	166. 6	144.4	102. 1	83.9	62. 1	36. 2	27. 0	21. 3	17. 7	14.7	12. 3	10. 2	5. 38
1.67V/cell	213.3	171. 8	149.4	104. 7	85.7	63. 4	36. 8	27. 4	21. 6	17. 9	14.8	12. 4	10. 4	5. 48
1.60V/cell	221.8	184. 1	153.2	110. 6	87.0	66. 4	38. 4	28. 4	22. 3	18. 5	14.9	12. 7	10. 6	5. 58

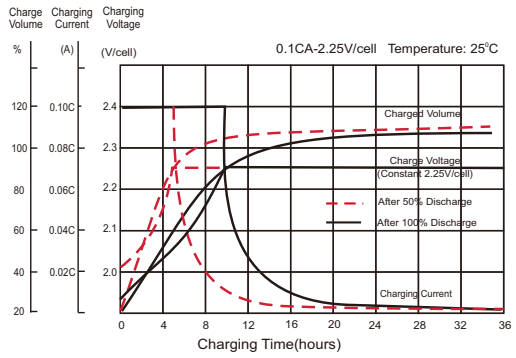
Constant Power Discharge (Watts/cell) at 25 °C (77°F)

F.V/Time	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	288.9	246. 1	228.0	159. 9	145.6	101. 4	61. 2	46. 3	37. 0	31. 0	27.2	21.9	18.4	9.9
1.80V/cell	325.8	283. 2	248.0	179. 3	153.4	111. 5	66. 3	49. 9	39. 7	33. 2	28.5	23.4	19.6	10.4
1.75V/cell	356.2	296. 5	262.2	185. 8	158.8	114. 8	67. 9	51. 0	40. 6	33. 9	28.8	23.8	19.8	10.5
1.70V/cell	378.6	309. 8	273.3	192. 2	162.0	118. 2	69. 7	52. 3	41. 4	34. 6	29.2	24.2	20.1	10.7
1.67V/cell	389.0	317. 8	279.2	196. 0	163.9	120. 0	70. 6	52. 9	41. 9	34. 9	29.5	24.4	20.3	10.7
1.60V/cell	396.0	334. 3	282.3	204. 5	164.7	124. 7	73. 0	54. 5	43. 1	35. 8	29.8	24.9	20.6	10.9

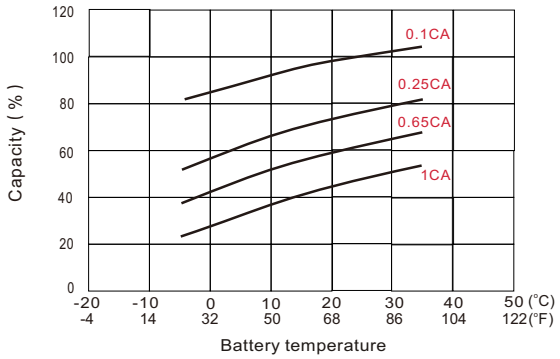
Discharge Characteristics



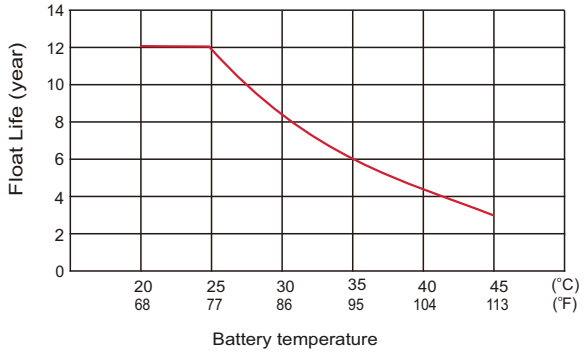
Float Charging Characteristics



Temperature Effects in Relation to Battery Capacity



Float Service Life



Front Terminal Battery Features

- Front terminal design
- Absorbent Glass Mat (AGM)
- Short recharging time
- Spill-free / Spill-proof
- High power and volume rat
- High reliability
- Oxygen recombination technology
- Unrivalled energy density
- Rechargeable lead acid battery
- Alloy plate grid
- Valve regulated
- Optimum quality
- Low self-discharge rate
- Extremely safe operations
- Developed in Canada