

CFT170-12

12V 170AH

Front Terminal



CFT170-12

Awaiting Image

Physical Specification

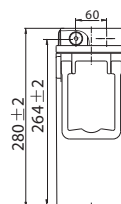
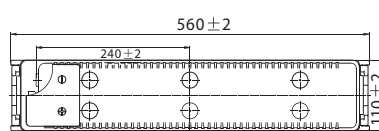
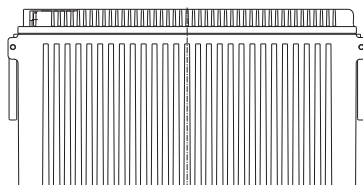
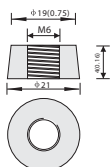
Part Number:	CFT170-12
Length:	560 ± 2 mm (21.69 inches)
Width:	126 ± 2 mm (4.33 inches)
Container Height:	280 ± 2 mm (11.30 inches)
Total Height (with terminal):	280 ± 2 mm (11.30 inches)
Approx Weight:	Approx 51.2 Kg

Specifications

	Nominal Voltage	12V	
	Nominal Capacity (20HR)	170AH	
Terminal Type	Standard Terminal	T13	
	Optional Terminal	-	
Container Material	Standard Option	ABS	
	Flame Retardant Option (FR)	ABS (UL94:VO)	
Rated Capacity	180.4 AH/9.02A	(20hr, 1.80V/cell, 25°C / 77°F)	
	170.0 AH/17.0A	(10hr, 1.80V/cell, 25°C / 77°F)	
	164.0 AH/20.5A	(5hr, 1.75V/cell, 25°C / 77°F)	
	155.0 AH/31.0A	(3hr, 1.75V/cell, 25°C / 77°F)	
	113.5 AH/113.5A	(1hr, 1.60V/cell, 25°C / 77°F)	
Max Discharge Current	1360A (5s)		
Internal Resistance	Approx 2.9mΩ		
Discharge Characteristics	Operating Temp. Range	Discharge: -15 ~ 50°C (5 ~ 122°F)	
		Charge: 0 ~ 40°C (5 ~ 104°F)	
		Storage: -15 ~ 40°C (5 ~ 104°F)	
	Nominal Operating Temp. Range	25 ± 3°C (77 ± 5°F)	
	Cycle Use	Initial Charging Current less than 54.0A. Voltage 14.4V ~ 15.0V at 25°C (77°F) Temp. Coefficient -30mV/°C	
	Standby Use	No limit on Initial Charging Current 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 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.		

Dimensions

T13 Terminal



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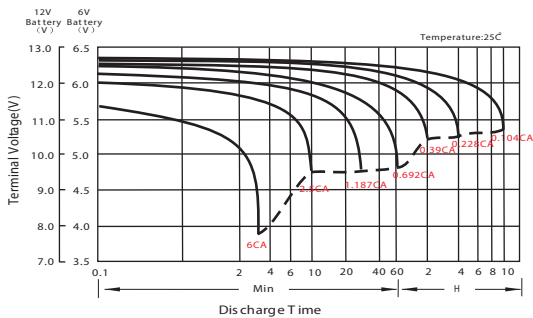
Constant Current Discharge (Amperes) at 25 °C (77°F)

F.V/Time	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	285.2	237.8	204.0	160.0	124.1	100.9	60.2	43.3	34.8	28.8	25.1	19.5	16.3	8.62
1.80V/cell	323.4	265.0	225.8	175.1	133.5	107.7	63.5	46.1	36.6	30.3	26.3	20.5	17.0	9.02
1.75V/cell	354.9	286.8	241.0	184.0	138.6	111.5	64.7	46.8	37.5	31.0	26.7	20.7	17.2	9.15
1.70V/cell	379.6	302.1	250.7	189.4	141.8	113.0	65.6	47.3	37.8	31.2	27.1	21.0	17.4	9.22
1.67V/cell	392.8	309.6	255.9	191.8	142.3	113.5	65.8	47.6	38.0	31.5	27.4	21.3	17.5	9.27
1.60V/cell	412.9	321.4	267.3	196.6	146.1	116.4	66.9	48.5	38.9	32.3	27.9	21.8	17.9	9.32

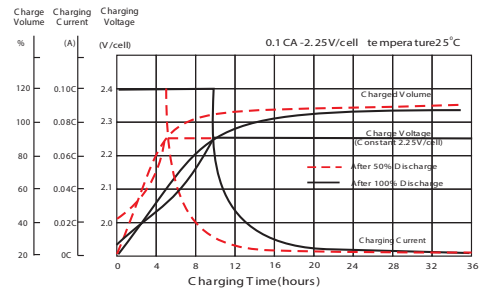
Constant Power Discharge (Watts) at 25 °C (77°F)

F.V/Time	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	532.6	448.4	388.7	308.2	241.0	196.6	118.0	85.3	68.7	57.0	49.7	38.9	32.5	17.3
1.80V/cell	596.8	493.1	424.0	332.1	257.3	208.7	123.7	90.3	71.9	59.7	52.1	40.8	34.0	18.0
1.75V/cell	644.5	527.2	448.1	346.2	264.6	215.2	125.6	91.3	73.5	60.9	52.7	41.2	34.3	18.3
1.70V/cell	674.0	547.6	462.7	354.4	269.7	217.4	127.1	92.1	73.8	61.0	53.2	41.7	34.6	18.4
1.67V/cell	694.8	558.9	470.4	358.1	269.8	217.8	127.3	92.4	74.3	61.6	53.7	42.2	34.9	18.5
1.60V/cell	710.1	568.9	484.5	362.4	273.9	221.2	128.3	93.7	75.4	62.9	54.6	43.0	35.5	18.6

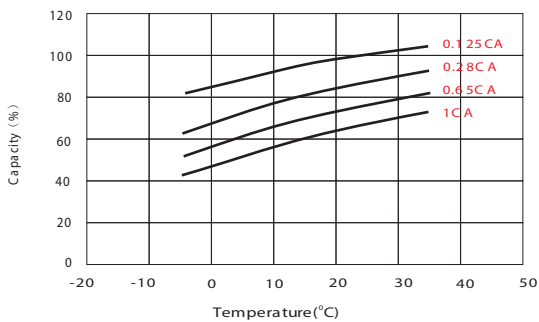
Discharge Characteristics



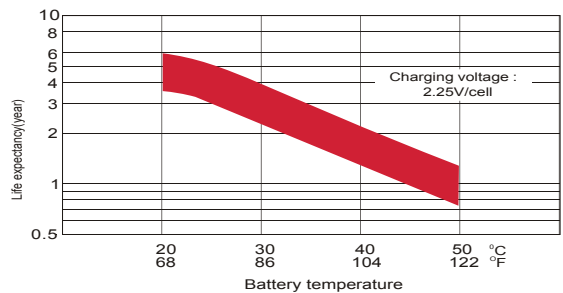
Float Charging Characteristics



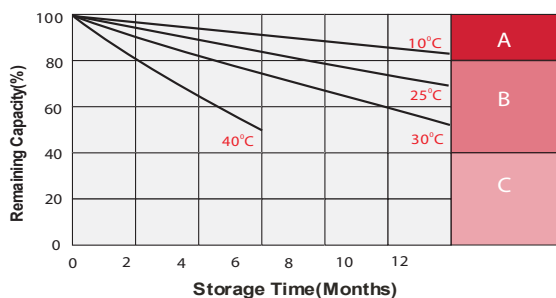
Temperature Effects in Relation to Battery Capacity



Effect of Temperature on Long Term Float Life



Self Discharge Characteristics



A

No supplementary required
(Carryout supplementary charge before use if 100% capacity is required.)

B

Supplementary charge required before use. Optional charging way as below:
 1. Charged for above 3 days at limited current 0.25CA and constant voltage 2.25V/cell.
 2. Charged for above 20 hours at limited current 0.25CA and constant voltage 2.25V/cell.
 3. Charged for 8 ~ 10 hours at limited current 0.05 CA.

C

Supplementary charge may often fail to recover the capacity.
The battery should never be left standing till this is reached.

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