

CFT50-12

12V 50AH

Front Terminal Battery



CFT50-12



Physical Specification

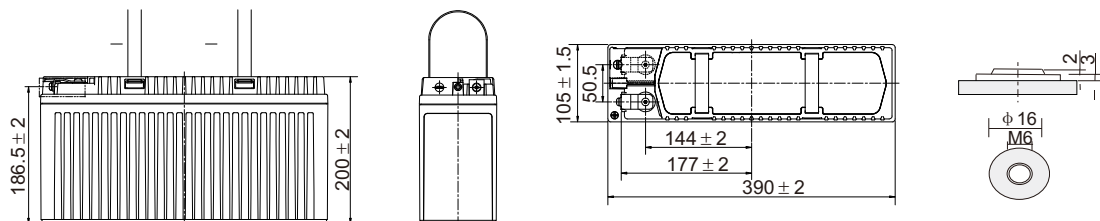
Part Number:	CFT50-12
Length:	390 ± 2 mm (15.3 inches)
Width:	105 ± 2 mm (4.17 inches)
Container Height:	200 ± 2 mm (7.87 inches)
Total Height (with terminal):	200 ± 2 mm (7.87 inches)
Approx Weight:	18.5 Kg (40.4 lbs)

Specifications

	Nominal Voltage	12V	
	(C10, 1.80V/cell)	50AH	
Terminal Option	M6		
Container Material	Standard Option	ABS	
	Flame Retardant Option (FR)	ABS (UL94:VO)	
Rated Capacity	(20hr, 2.63A, 1.80V/cell)	52.6 Ah	
	(10hr, 5.00A, 1.80V/cell)	50.0 Ah	
	(8hr, 6.11A, 1.75V/cell)	48.9 Ah	
	(5hr, 8.75A, 1.75V/cell)	43.8 Ah	
	(1hr, 32.0A, 1.67V/cell)	32.0 Ah	
Max Discharge Current (5s)	500A		
Internal Resistance	Approx. 7.6 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 15.0A. Voltage 13.5V~13.8V at 25°C (77°F) Temp. Coefficient -30mV/°C	
	Standby Use	Initial Charging Current less than 12.0A. 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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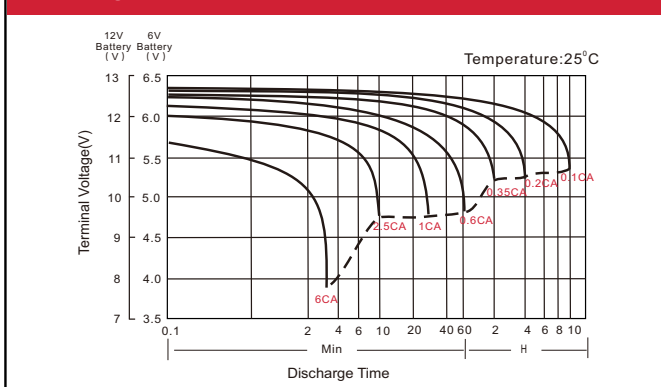
Constant Current Discharge (Amperes) at 25 °C (77°F)

F.V/Time	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	79.8	64.7	59.9	41.8	35.8	26.3	15.8	11.9	9.50	7.94	7.1	5.60	4.69	2.46
1.80V/cell	92.1	75.2	66.4	47.2	38.6	29.2	17.2	12.9	10.2	8.56	7.5	6.00	5.00	2.63
1.75V/cell	101.7	79.6	71.7	49.4	39.9	30.2	17.7	13.3	10.5	8.75	7.6	6.11	5.08	2.67
1.70V/cell	107.4	84.1	74.5	51.6	40.8	31.3	18.3	13.6	10.8	8.95	7.7	6.22	5.16	2.71
1.67V/cell	112.2	87.6	76.8	52.9	41.4	32.0	18.6	13.8	10.9	9.06	7.8	6.28	5.20	2.73
1.60V/cell	117.0	93.0	78.5	55.9	41.9	33.6	19.4	14.4	11.3	9.34	7.8	6.43	5.31	2.79

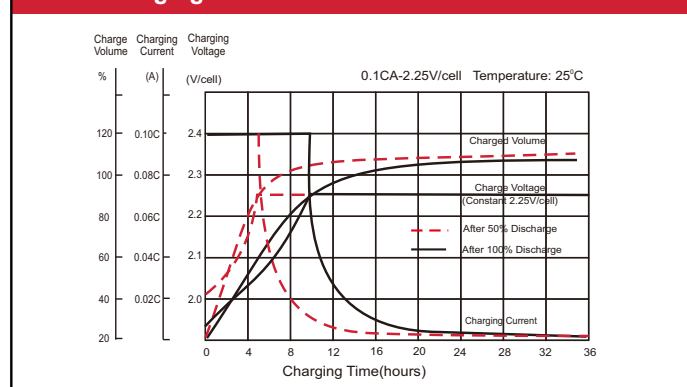
Constant Power Discharge (Watts/cell) at 25 °C (77°F)

F.V/Time	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	152.0	132.6	116.2	86.2	70.2	54.6	33.0	25.0	19.9	16.7	14.4	11.8	9.89	5.33
1.80V/cell	174.2	152.6	127.8	96.6	75.4	60.1	35.7	26.9	21.4	17.9	15.1	12.6	10.5	5.62
1.75V/cell	190.9	159.8	137.4	100.1	77.7	61.8	36.6	27.5	21.9	18.3	15.3	12.8	10.7	5.68
1.70V/cell	198.9	167.0	141.5	103.6	78.8	63.7	37.6	28.2	22.3	18.6	15.4	13.0	10.8	5.75
1.67V/cell	204.6	172.7	143.9	105.6	79.3	64.7	38.1	28.5	22.6	18.8	15.5	13.1	10.9	5.79
1.60V/cell	208.9	180.1	145.1	110.2	79.5	67.2	39.4	29.4	23.2	19.3	15.5	13.4	11.1	5.89

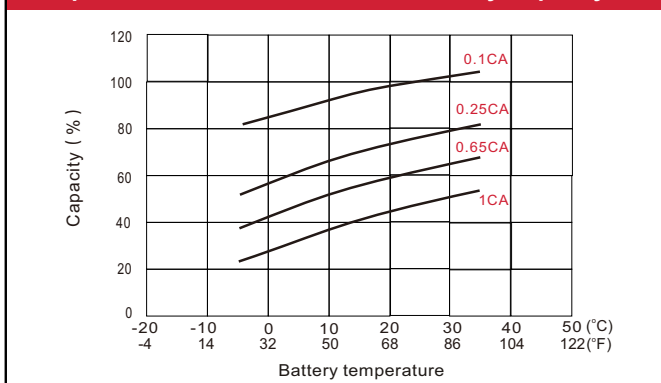
Discharge Characteristics



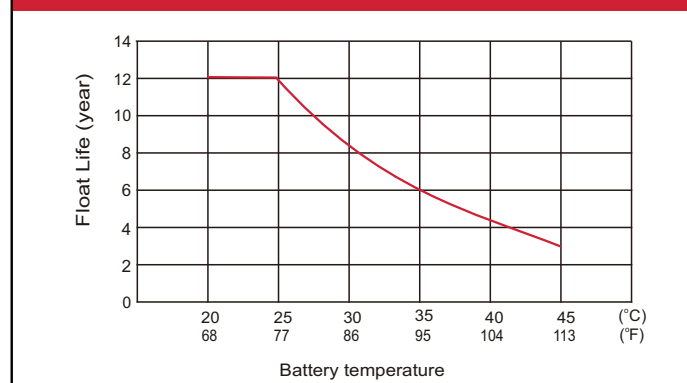
Float Charging Characteristics



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 ratio
- 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

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