

CFT100-12A

12V 100AH

Front Terminal Battery



CFT100-12A



Physical Specification

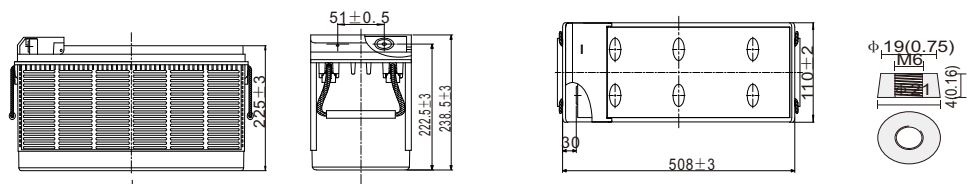
Part Number:	CFT100-12A
Length:	508 ± 2 mm (20.0 inches)
Width:	110 ± 2 mm (4.33 inches)
Container Height:	238.5± 2 mm (9.39 inches)
Total Height (with terminal):	238.5± 2 mm (9.39 inches)
Approx Weight:	32.0 Kg (70.6 lbs)

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, 5.30A, 1.80V/cell)	106.0 Ah
	(10hr, 10.0A, 1.80V/cell)	100.0 Ah
	(8hr, 12.1A, 1.75V/cell)	96.8 Ah
	(5hr, 17.4A, 1.75V/cell)	87.0 Ah
	(1hr, 63.7A, 1.67V/cell)	63.7 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 30.0A. Voltage 14.1V~14.4V at 25°C (77°F) Temp. Coefficient -30mV/°C
	Standby Use	Initial Charging Current less than 30.0A. Voltage 13.5V~13.8V at 25°C (77°F) Temp. Coefficient -20mV/°C
	Capacity affected by Temperature	40°C (104°F)
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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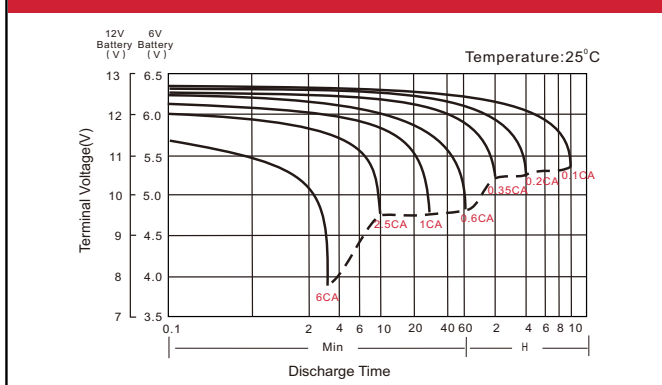
Constant Current Discharge (Amperes) at 25 °C (77°F)

F.V/Time	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	144.6	127.2	114.0	91.6	69.6	56.3	33.6	24.7	19.9	16.7	14.5	11.5	9.56	5.07
1.80V/cell	168.0	146.8	127.2	99.0	74.3	59.5	34.8	25.7	20.5	17.2	14.8	11.9	10.0	5.30
1.75V/cell	185.4	158.0	133.2	103.2	76.8	61.4	35.6	26.1	20.8	17.4	15.1	12.1	10.1	5.35
1.70V/cell	197.4	165.6	138.6	106.0	78.8	62.8	36.2	26.5	21.1	17.6	15.3	12.2	10.2	5.38
1.67V/cell	206.4	171.2	144.0	108.4	80.1	63.7	36.6	26.7	21.3	17.8	15.4	12.3	10.3	5.41
1.60V/cell	215.4	176.0	146.4	110.6	80.9	64.3	37.1	27.0	21.5	18.1	15.6	12.5	10.4	5.44

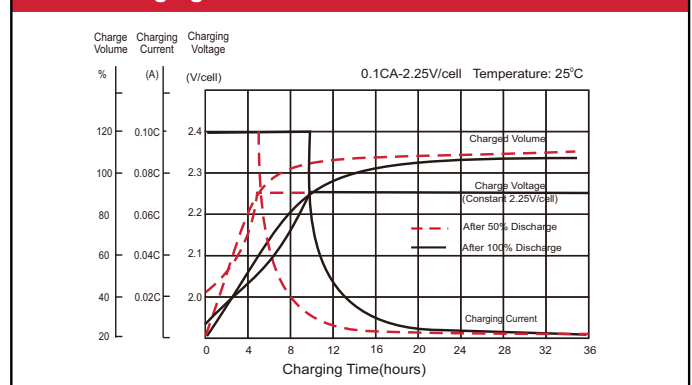
Constant Power Discharge (Watts/cell) at 25 °C (77°F)

F.V/Time	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	270.0	239.9	217.2	176.4	135.2	109.7	65.8	48.6	39.3	33.1	28.7	22.9	19.1	10.1
1.80V/cell	310.0	273.2	238.8	187.8	143.1	115.3	67.7	50.4	40.3	33.9	29.3	23.6	20.0	10.6
1.75V/cell	336.7	290.5	247.7	194.2	146.6	118.5	69.0	51.0	40.7	34.2	29.7	23.9	20.2	10.7
1.70V/cell	350.5	300.2	255.8	198.3	149.9	120.8	70.1	51.6	41.2	34.4	30.0	24.2	20.3	10.7
1.67V/cell	365.1	309.1	264.7	202.4	151.9	122.2	70.8	51.9	41.5	34.8	30.2	24.4	20.5	10.8
1.60V/cell	370.4	311.5	265.3	203.8	151.8	122.2	71.1	52.2	41.7	35.2	30.6	24.6	20.7	10.8

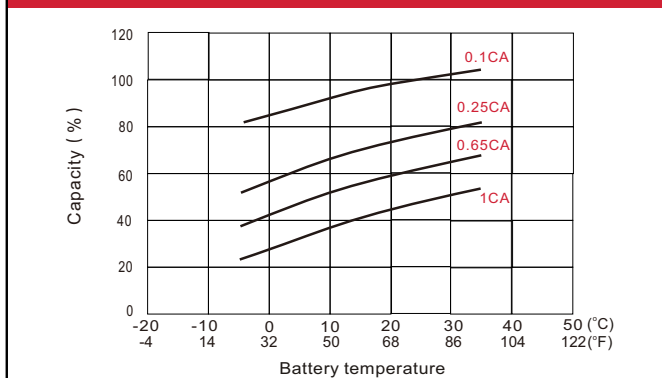
Discharge Characteristics



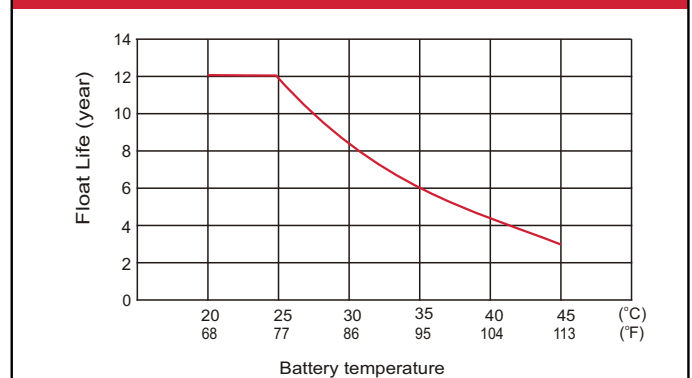
Float Charging Characteristics



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