

# CFT50-12

12V 50AH

Front Terminal



## CFT50-12

Awaiting Image

## Physical Specification

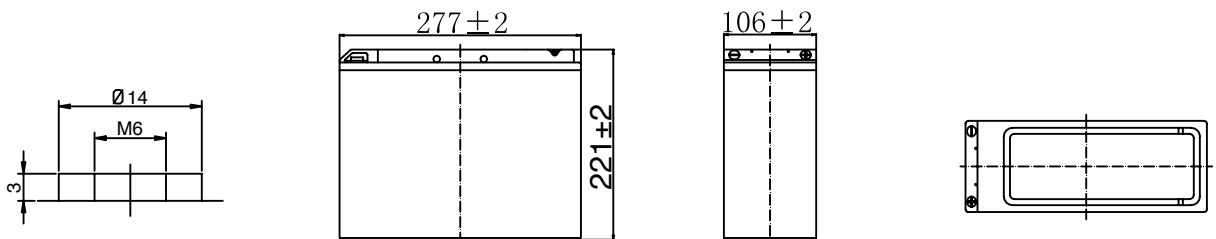
Part Number	CFT50-12
Length	277 ± 2 mm
Width	106 ± 2 mm
Container Height	221 ± 2 mm
Total Height (with terminal)	221 ± 2 mm
Approx Weight	16 kg

## Specifications

	Nominal Voltage	12V
	Nominal Capacity (10HR)	50AH
Terminal Type	Standard Terminal	T6
Container Material	Standard Option	ABS
Rated Capacity	10hr, 1.80V/cell, 25°C	50 Ah
	5hr, 1.75V/cell, 25°C	43.5 Ah
	1hr, 1.60V/cell, 25°C	31 Ah
Max Discharge Current	500A (5s)	
Internal Resistance	Approx 7.5m Ω	
Discharge Characteristics	Operating Temp. Range	Discharge: -15 ~ 50°C
		Charge: -10 ~ 50°C
		Storage: -20 ~ 50°C
	Nominal Operating Temp. Range	25 ± 3°C
	Cycle Use	14.5V ~ 14.90V Temp. Coefficient -30mV/°C
	Standby Use	13.5V ~ 13.8V Temp. Coefficient -18mV/°C
Capacity affect by Temperature	40°C	103%
	25°C	100%
	0°C	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

### T6 Terminal



## Constant Current Discharge Characteristics (A, 25°C)

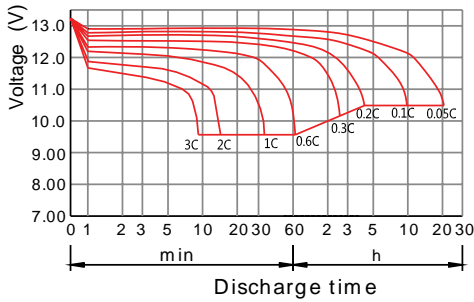
F.V/TIME	15min	30min	60min	2h	3h	4h	5h	6h	8h	10h	20h
9.60V	80.9	49.0	31.0	18.3	12.8	10.5	8.93	7.80	6.12	5.09	2.67
9.90V	78.9	48.0	30.5	18.2	12.7	10.4	8.87	7.76	6.08	5.08	2.67
10.2V	76.0	46.6	29.8	18.0	12.6	10.3	8.81	7.70	6.04	5.07	2.66
10.5V	73.4	45.4	29.2	17.7	12.5	10.3	8.75	7.65	6.00	5.04	2.64
10.8V	69.5	43.8	28.3	17.3	12.1	9.94	8.49	7.42	5.82	5.00	2.63

ALL DATA IS SUBJECT TO CHANGE WITHOUT NOTICE

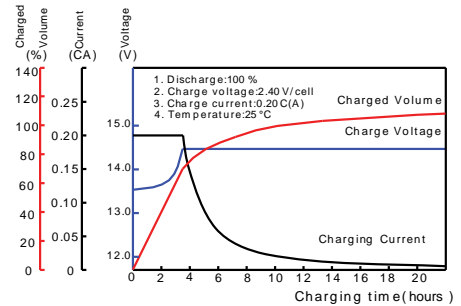
## Constant Power Discharge Characteristics (Watt, 25°C)

F.V/TIME	15min	30min	60min	2h	3h	4h	5h	6h	8h	10h	20h
9.60V	888	550	353	212	150	123	105	92.2	72.7	60.8	32.1
9.90V	866	539	348	210	149	122	105	91.7	72.3	60.7	32.0
10.2V	834	522	339	208	148	121	104	91.1	71.8	60.5	31.9
10.5V	806	510	333	205	147	121	103	90.4	71.3	60.1	31.7
10.8V	763	491	322	200	143	117	100	87.7	69.1	59.7	31.5

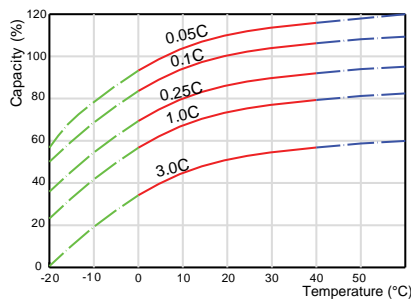
### Discharge Characteristics (25°C)



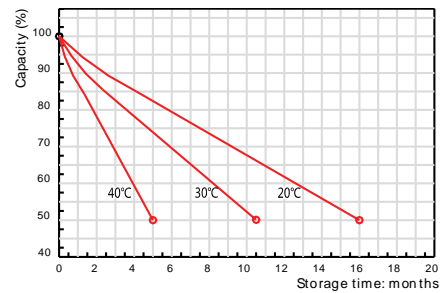
### Charging Characteristics (25°C)



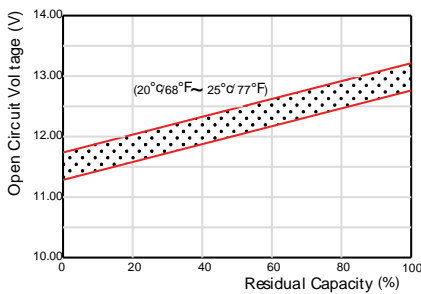
### Effect of Temperature on Capacity



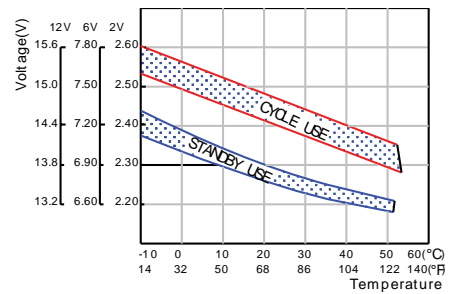
### Self-discharge Characteristics



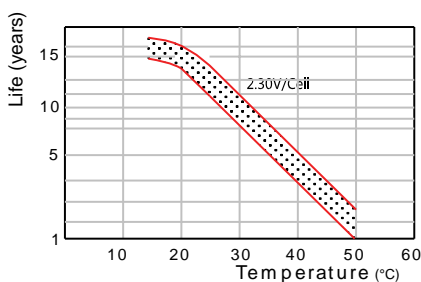
### The Relationship for Open Circuit Voltage and Residual Capacity (25°C)



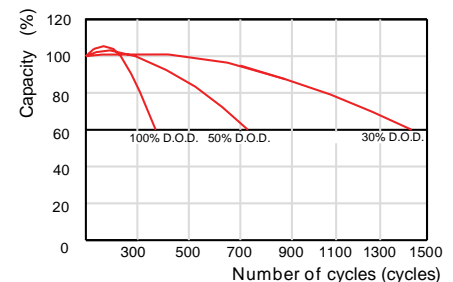
### The Relationship for Charging Voltage and Temperature



### Floating Life on Temperature



### Cycle Life on D.O.D (25°C)



ALL DATA IS SUBJECT TO CHANGE WITHOUT NOTICE