

CFT90-12S

12V 90AH

Front Terminal



CFT90-12S

Awaiting Image

Physical Specification

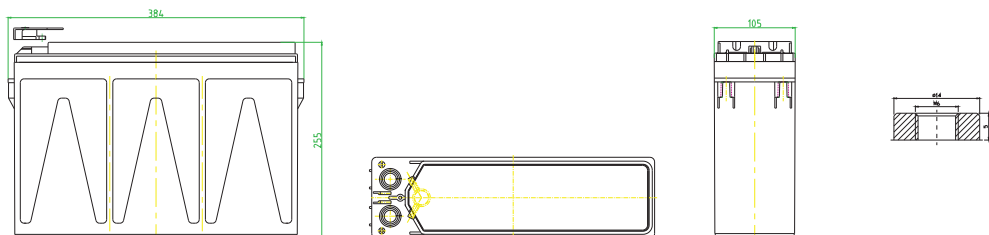
Part Number	CFT90-12S
Length	384 ± 2 mm
Width	105 ± 2 mm
Container Height	255 ± 2 mm
Total Height (with terminal)	255 ± 2 mm
Approx Weight	27.5 kg

Specifications

	Nominal Voltage	12V
	Nominal Capacity (10HR)	90AH
Terminal Type	Standard Terminal	T11
Container Material	Standard Option	ABS UL94-HB
	Flame Retardant Option (FR)	UL94-V0
Rated Capacity	10hr, 1.80V/cell, 25°C	90AH/9.0A
	5hr, 1.75V/cell, 25°C	77AH/15.4A
	3hr, 1.75V/cell, 25°C	68.16AH/22.72A
	1hr, 1.60V/cell, 25°C	56.18AH/56.18A
Max Discharge Current	900 A (5 sec)	
Internal Resistance	Approx 5.5m Ω	
Discharge Characteristics	Operating Temp. Range	Discharge: -20 ~ 60°C
		Charge: 0 ~ 50°C
		Storage: -20 ~ 60°C
	Nominal Operating Temp. Range	25 ± 5°C
	Cycle Use	Initial Charging Current less than 27A Voltage 14.6V ~ 14.8V Temp. Coefficient -3mV/°C
	Standby Use	No limit on Initial Charging Current Voltage 13.6V ~ 13.8V Temp. Coefficient -3mV/°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

T11 Terminal



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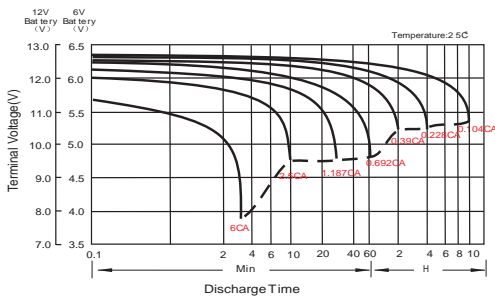
Constant Current Discharge (Amperes) at 20°C

F.V/Time	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
9.60V	155.2	90.42	56.18	34.68	23.57	19.01	15.78	10.39	9.365	4.96
10.0V	152.0	89.27	55.43	33.98	23.13	18.74	15.64	10.35	9.274	4.87
10.2V	148.8	87.90	54.90	33.62	22.93	18.55	15.53	10.26	9.182	4.77
10.5V	141.7	85.48	54.23	33.18	22.72	18.27	15.40	10.17	9.090	4.68
10.8V	130.6	82.66	53.47	32.91	22.46	17.65	15.33	10.12	9.007	4.63
11.1V	117.1	79.51	52.21	31.59	22.02	17.39	15.22	10.04	8.903	4.44

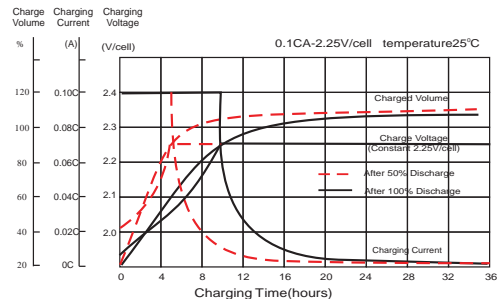
Constant Power Discharge (Watts) at 20°C

F.V/Time	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
9.60V	1686	1035	651.0	406.4	277.5	227.5	189.0	124.4	112.3	59.72
10.0V	1662	1024	645.1	401.5	273.4	224.3	187.3	124.0	111.4	58.69
10.2V	1643	1015	641.2	398.6	272.2	222.2	186.2	123.0	110.4	57.60
10.5V	1569	994.7	637.1	393.6	270.0	219.2	184.7	122.0	109.3	56.51
10.8V	1465	971.2	629.0	390.7	266.9	211.8	183.8	121.4	108.3	55.97
11.1V	1334	944.5	619.5	376.0	262.5	208.8	183.2	120.6	107.1	53.97

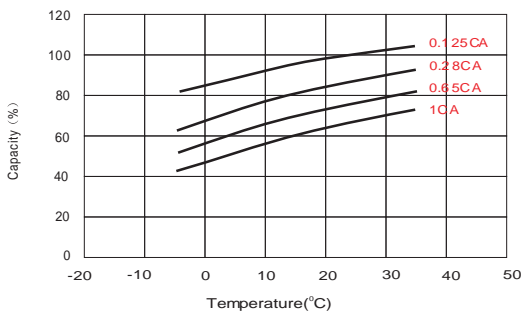
Discharge Characteristics



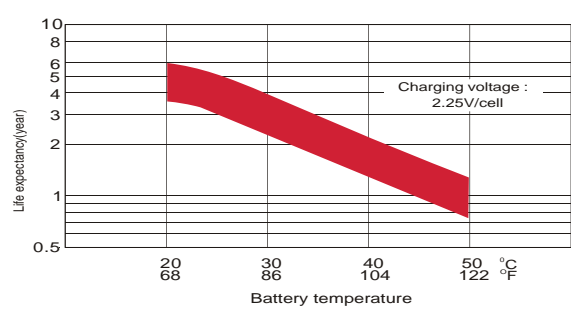
Float Charging Characteristics



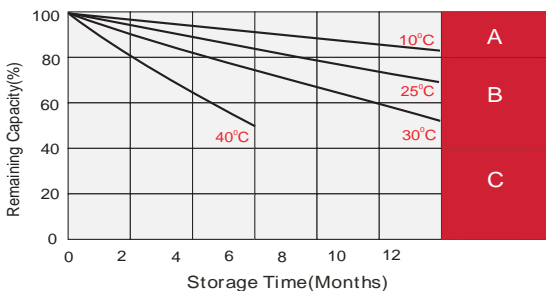
Temperature Effects in Relation to Battery Capacity



Effect of Temperature on Long Term Float Life



Self Discharge Characteristics



- A** No supplementary charge required (Carry out 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 20hours at limited current 0.25CA and constant voltage 2.45V/cell.
 3. Charged for 8-10hours at limited current 0.05CA.
- C** Supplementary charge may often fail to recover the capacity. The battery should never be left standing till this is reached.