CT SERIES-General Purpose

CT12-75FT (12V 75AH)

Specification

Code:460-6210

Nominal Voltage	12V
Nominal Capacity(10HR)	75.0AH
Dimension	Length 564±3mm (22.20 inches) Width 114±2mm (4.49 inches) Container Height 187±2mm (7.36 inches) Total Height (with Terminal) 187±2mm (7.36 inches)
Approx Weight	Approx 26.0 Kg (57.3 lbs)
Terminal	T6
Container Material	ABS
Rated Capacity	79.4AH/3.97A (20hr ,1.80V/cell,25°C/77°F) 75.0 AH/7.50A (10hr,1.80V/cell,25°C/77°F) 72.2 AH/9.03A (8hr,1.80V/cell,25°C/77°F) 65.5 AH/13.1A (5hr,1.75V/cell,25°C/77°F) 49.5 AH/49.5A (1hr,1.67V/cell,25°C/77°F)
Max. Discharge Current	750A (5s)
Internal Resistance	Approx 5.0mΩ
Operating Temp.Range	Discharge : -15～50°C (5～122°F) Charge : 0～40°C (32～104°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 22.5A.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%
Self Discharge	CT series batteries may be stored for up to 6 months at 25°C(77°F) and then a freshening charge is required. For higher temperatures the time interval will be shorter.

Applications

- *For standard 19 inches or 23 inches power cabinets*
- *Network connection equipment of communication system*
- *Power system of special network or local area network*
- *UPS, standby power supply*
- *Power station systems*
- *Railway and marine systems*

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	132.8	111.6	94.5	72.8	54.4	43.2	25.0	18.2	14.6	12.4	10.8	8.67	7.17	3.80
1.80V/cell	145.8	120.9	103.5	78.5	57.9	45.8	26.4	19.1	15.3	13.0	11.3	9.03	7.50	3.97
1.75V/cell	155.7	127.8	108.0	81.8	59.9	47.6	27.2	19.8	15.7	13.1	11.4	9.14	7.59	4.01
1.70V/cell	163.8	133.8	111.6	83.9	61.2	48.5	27.8	20.0	15.9	13.3	11.5	9.21	7.64	4.04
1.67V/cell	170.1	136.8	113.9	85.5	62.7	49.5	28.0	20.2	16.0	13.4	11.6	9.29	7.70	4.06
1.60V/cell	176.4	140.7	116.6	87.3	63.8	50.5	28.3	20.3	16.1	13.5	11.7	9.36	7.74	4.08

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

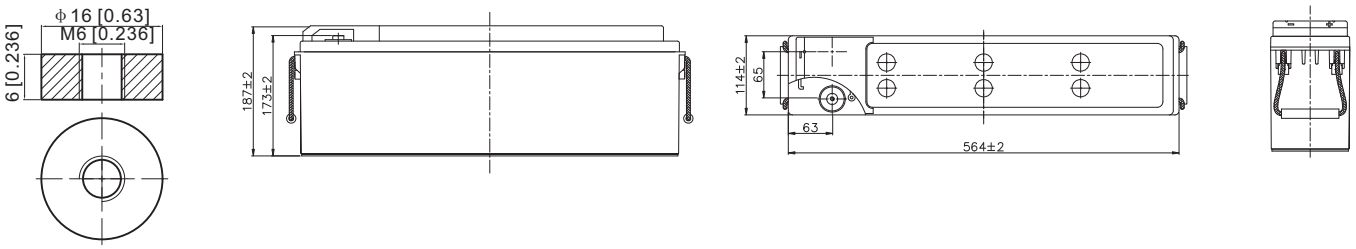
F.V/Time	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	252.8	214.3	182.7	141.7	106.7	84.9	49.5	36.1	29.1	24.8	21.7	17.4	14.5	7.67
1.80V/cell	275.7	231.0	199.0	152.3	113.1	89.7	52.0	37.9	30.4	26.0	22.6	18.1	15.1	7.99
1.75V/cell	292.3	242.7	206.6	157.9	116.6	93.0	53.5	39.3	31.2	26.1	22.9	18.3	15.2	8.06
1.70V/cell	303.4	251.1	211.3	160.5	118.2	94.0	54.4	39.5	31.4	26.3	23.1	18.4	15.3	8.11
1.67V/cell	310.3	253.0	212.7	161.7	119.9	95.3	54.6	39.6	31.5	26.4	23.2	18.6	15.4	8.13
1.60V/cell	314.9	255.9	214.7	163.3	120.8	96.2	54.7	39.6	31.6	26.6	23.4	18.7	15.5	8.16

Specifications subject to change without notice.

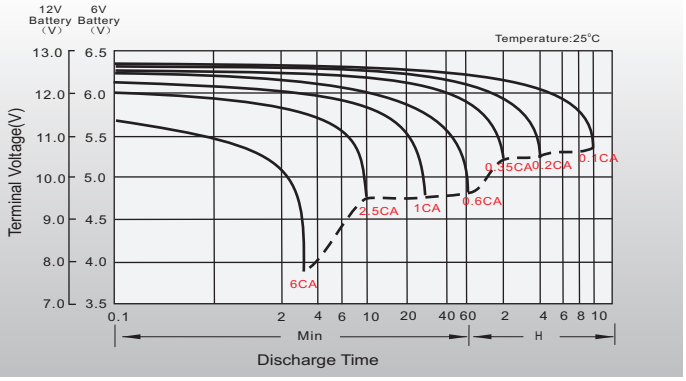
Dimensions

T6 Terminal

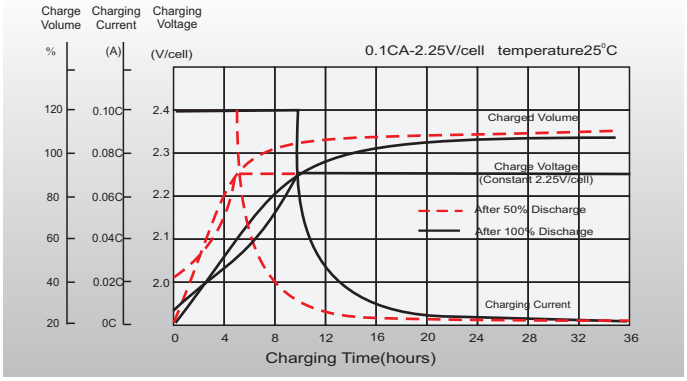
Unit: mm [inches]



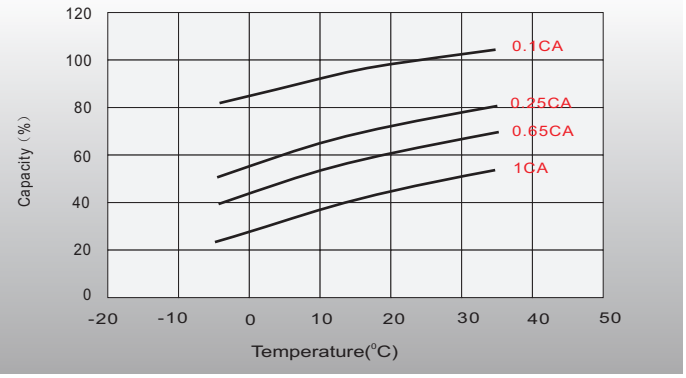
Discharge Characteristics



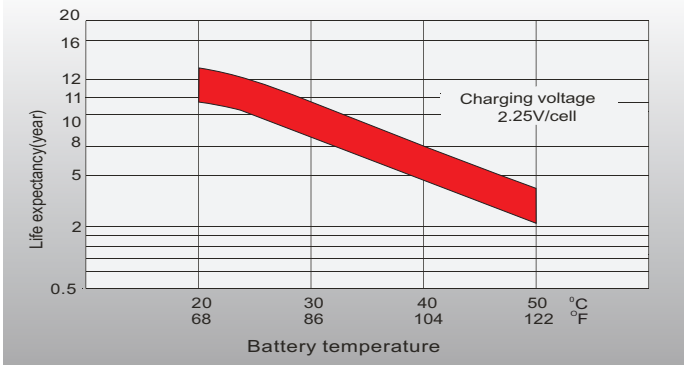
Float Charging Characteristics

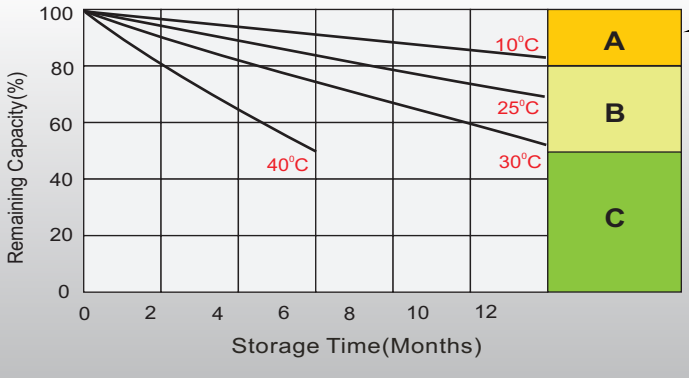


Temperature Effects in Relation to Battery Capacity



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 limted current 0.25CA and constant volatge 2.25V/cell.
2.Charged for above 20hours at limted current 0.25CA and constant volatge 2.45V/cell.
3.Charged for 8~10hours at limted current 0.05CA .

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