CT SERIES-General Purpose

CT12-90FT (12V95AH)

Specification

Code:460-6215

Nominal Voltage	12V
Nominal Capacity(10HR)	94.4 AH
Dimension	Length 394±3mm (15.5 inches) Width 110±2mm (4.33 inches) Container Height 285±3mm (11.2 inches) Total Height (with Terminal) 285±3mm (11.2 inches)
Approx Weight	Approx 32.6 Kg (71.9 lbs)
Terminal	T6
Container Material	ABS
Rated Capacity	100.0 AH/5.00A (20hr ,1.80V/cell,25°C/77°F) 94.4 AH/9.44A (10hr,1.80V/cell,25°C/77°F) 90.0 AH/11.25A (8hr,1.80V/cell,25°C/77°F) 82.0 AH/16.4A (5hr,1.75V/cell,25°C/77°F) 62.3 AH/62.3A (1hr,1.67V/cell,25°C/77°F)
Max. Discharge Current	900A (5s)
Internal Resistance	Approx 4.5mΩ
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 28.5A.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	136.5	119.2	106.1	85.7	66.8	54.1	31.5	22.9	18.3	15.4	13.4	10.82	9.03	4.78
1.80V/cell	155.1	132.7	116.1	92.1	70.7	56.9	32.8	24.3	19.3	16.2	14.1	11.25	9.44	5.00
1.75V/cell	170.8	144.7	123.4	95.8	73.4	58.6	33.8	24.7	19.6	16.4	14.2	11.39	9.55	5.05
1.70V/cell	183.9	152.9	130.0	100.2	75.5	60.1	34.5	25.2	20.0	16.7	14.5	11.59	9.61	5.08
1.67V/cell	192.0	159.3	134.5	102.8	77.1	61.4	35.1	25.4	20.1	16.9	14.6	11.69	9.69	5.11
1.60V/cell	199.6	164.4	137.9	104.9	78.3	62.3	35.6	25.5	20.3	17.0	14.7	11.78	9.74	5.14

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

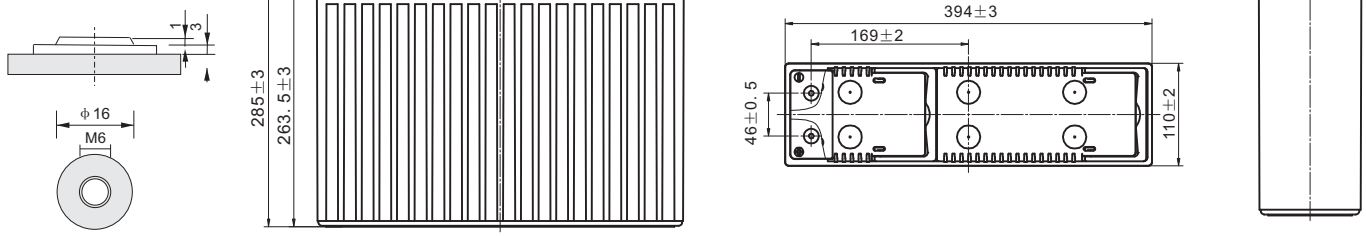
F.V/Time	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	260.0	228.9	205.2	166.9	131.0	106.2	62.3	45.5	36.6	30.9	26.9	21.8	18.2	9.66
1.80V/cell	293.2	253.6	223.2	178.9	138.1	111.5	64.8	48.1	38.3	32.4	28.2	22.6	19.0	10.1
1.75V/cell	320.6	274.7	236.0	185.1	142.9	114.6	66.6	48.9	38.9	32.6	28.5	22.8	19.1	10.1
1.70V/cell	340.7	287.0	246.0	191.8	145.8	116.7	67.6	49.7	39.5	33.1	29.0	23.2	19.2	10.2
1.67V/cell	350.1	294.6	251.3	194.5	147.5	118.1	68.4	49.9	39.7	33.3	29.2	23.4	19.4	10.2
1.60V/cell	356.4	299.1	254.1	196.3	148.2	118.7	68.9	49.8	39.8	33.5	29.5	23.6	19.5	10.3

Specifications subject to change without notice.

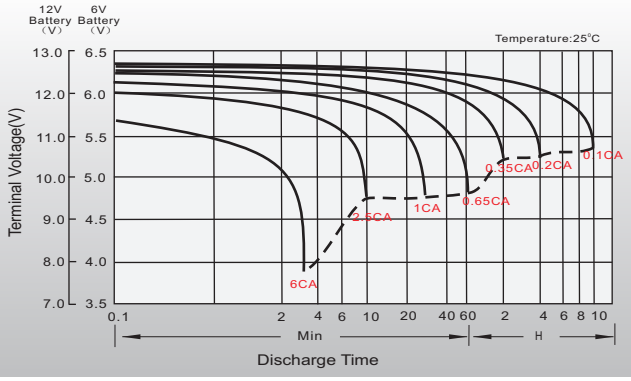
Dimensions

T6 Terminal

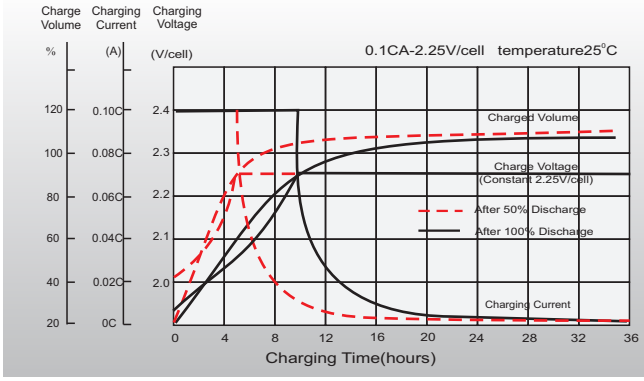
Unit: mm



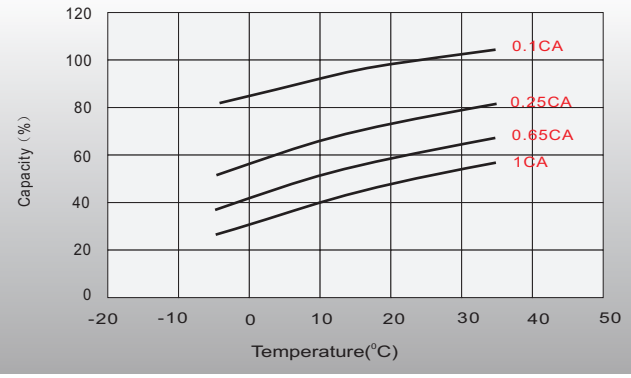
Discharge Characteristics



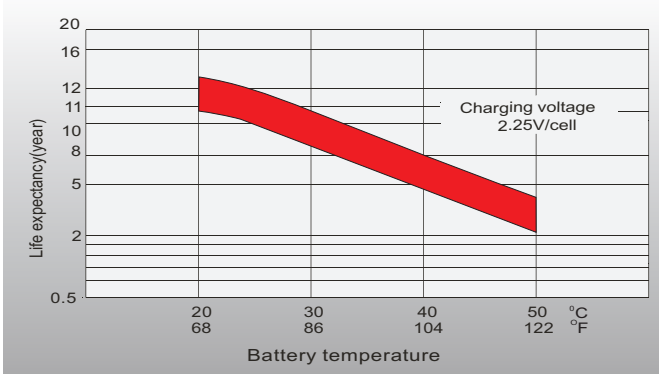
Float Charging Characteristics

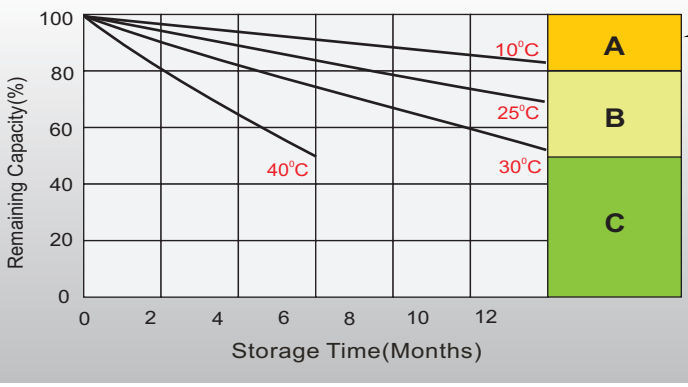


Temperature Effects in Relation to Battery Capacity



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.