TRIATHLON®
INTELLIGENT SYSTEMS

FT SERIES-LONG LIFE

FT12100H(12V100AH)

Specification

Nominal Voltage	12V
Nominal Capacity(8HR)	100.0AH
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 34.5 Kg (76.1 lbs)
Terminal	T6
Container Material	ABS
Rated Capacity	110.0 AH/5.50A (20hr ,1.80V/cell,25°C/77°F) 104.0 AH/10.4A (10hr,1.80V/cell,25°C/77°F) 100.0 AH/12.5A (8hr,1.80V/cell,25°C/77°F) 94.5 AH/18.9A (5hr,1.75V/cell,25°C/77°F) 69.2 AH/69.2A (1hr,1.67V/cell,25°C/77°F)
Max. Discharge Current	1000A (5s)
Internal Resistance	Approx 4.3mΩ
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 30.0A.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	FT 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)

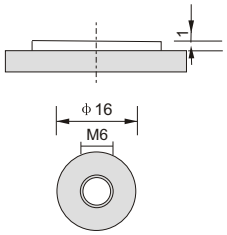
F.V/Time	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	173.9	145.0	124.4	97.6	75.7	61.5	36.7	26.4	21.2	17.6	15.3	11.90	9.92	5.26
1.80V/cell	197.2	161.6	137.7	106.8	81.4	65.7	38.7	28.1	22.3	18.5	16.1	12.50	10.38	5.50
1.75V/cell	216.4	174.9	146.9	112.2	84.5	68.0	39.4	28.6	22.9	18.9	16.3	12.70	10.49	5.58
1.70V/cell	231.5	184.2	152.9	115.5	86.5	68.9	40.0	28.8	23.0	19.0	16.5	12.80	10.56	5.62
1.67V/cell	239.5	188.8	156.0	117.0	86.8	69.2	40.1	28.9	23.1	19.1	16.6	12.90	10.65	5.65
1.60V/cell	251.8	196.0	163.0	119.9	89.1	71.0	40.8	29.3	23.4	19.3	16.7	12.98	10.80	5.68

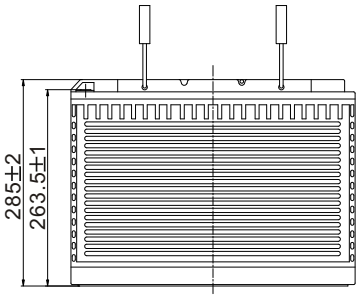
Constant Power Discharge (Watts/cell) at 25 °C (77°F)

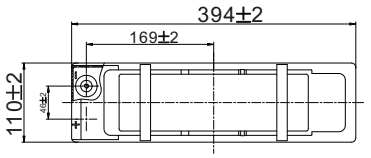
F.V/Time	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	324.8	273.4	237.0	187.9	147.0	119.9	72.0	52.0	41.9	34.8	30.3	23.7	19.8	10.52
1.80V/cell	363.9	300.7	258.5	202.5	156.9	127.3	75.4	55.0	43.8	36.4	31.7	24.9	20.7	10.98
1.75V/cell	393.0	321.4	273.3	211.1	161.4	131.2	76.6	55.7	44.8	37.1	32.1	25.2	20.9	11.14
1.70V/cell	411.0	333.9	282.2	216.1	162.5	132.5	77.5	56.1	45.0	37.2	32.5	25.4	21.0	11.21
1.67V/cell	423.6	340.8	286.8	218.4	164.5	132.8	77.6	56.2	45.1	37.3	32.6	25.5	21.2	11.25
1.60V/cell	433.0	346.9	295.4	221.0	167.0	134.9	78.2	56.5	45.4	37.6	32.7	25.6	21.4	11.30

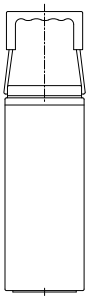
Dimensions

T6 Terminal
Unit: mm [inches]

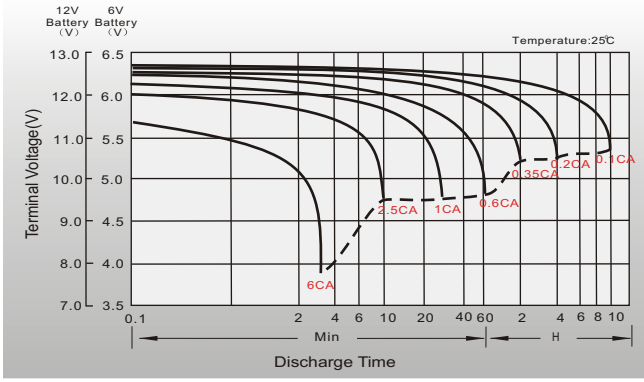




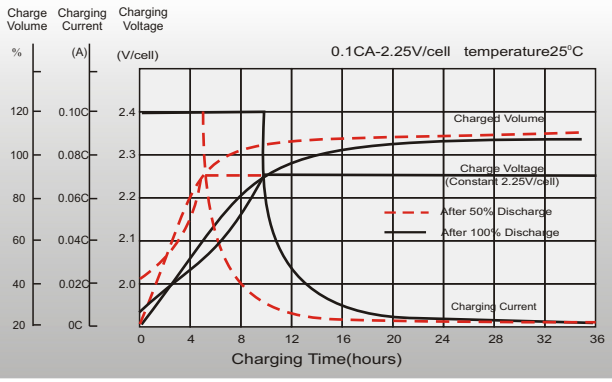




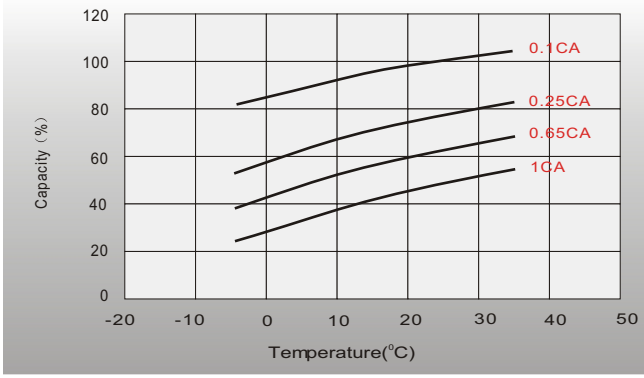
Discharge Characteristics



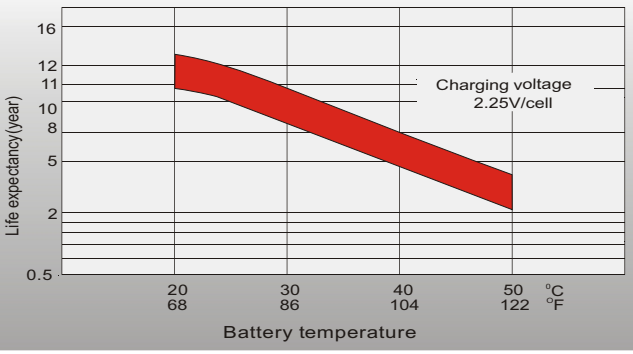
Float Charging Characteristics

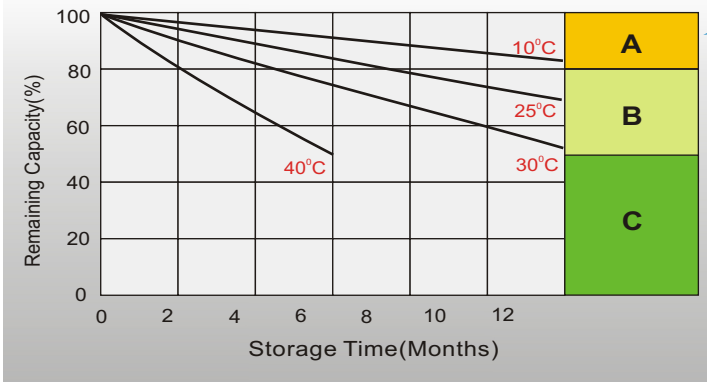


Temperature Effects in Relation to Battery Capacity



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.