

# CFT75-12

12V 75AH

Front Terminal



## CFT75-12



## Physical Specification

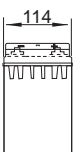
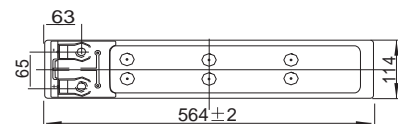
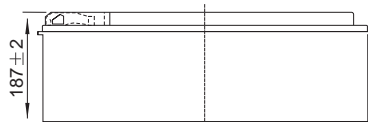
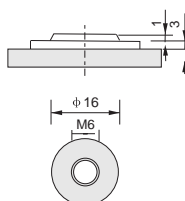
|                              |            |
|------------------------------|------------|
| Part Number                  | CFT75-12   |
| Length                       | 564 ± 2 mm |
| Width                        | 114 ± 2 mm |
| Container Height             | 187 ± 2 mm |
| Total Height (with terminal) | 187 ± 2 mm |
| Approx Weight                | 26 kg      |

## Specifications

|                                     |   |   |
|-------------------------------------|---|---|
|                                     | Nominal Voltage   | 12V   |
|                                     | Nominal Capacity (10HR)   | 75AH  |
| <b>Terminal Type</b>                | Standard Terminal   | T6  |
| <b>Container Material</b>           | Standard Option   | ABS   |
|                                     | Flame Retardant Option (FR)   | UL94-V0   |
| <b>Rated Capacity</b>               | 20hr, 1.80V/cell, 25°C  | 82.5AH/4.12A  |
|                                     | 10hr, 1.80V/cell, 25°C  | 77.9 AH/7.79A   |
|                                     | 5hr, 1.75V/cell, 25°C   | 65.5 AH/13.1A   |
|                                     | 3hr, 1.75V/cell, 25°C   | 59.4AH/19.8A  |
|                                     | 1hr, 1.60V/cell, 25°C   | 53.3 AH/53.3A   |
| <b>Max Discharge Current</b>        | 750A (5s)   |   |
| <b>Internal Resistance</b>          | Approx 5.0m Ω   |   |
| <b>Discharge Characteristics</b>    | Operating Temp. Range   | Discharge: -15 ~ 50°C   |
|                                     |   | Charge: 0 ~ 40°C  |
|                                     |   | Storage: -15 ~ 40°C   |
|                                     | Nominal Operating Temp. Range   | 25 ± 3°C  |
|                                     | Cycle Use   | Initial Charging Current less than 22.5A Voltage 14.4V ~ 15.0V Temp. Coefficient -30mV/°C |
|                                     | Standby Use   | No limit on Initial Charging Current Voltage 13.5V ~ 13.8V Temp. Coefficient -20mV/°C     |
| Capacity affect by Temperature      | 40°C  | 103%  |
|                                     | 25°C  | 100%  |
|                                     | 0°C   | 86%   |
| <b>Design Floating Life at 20°C</b> | 12+ Years   |   |
| <b>Self Discharge</b>               | 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



ALL DATA IS SUBJECT TO CHANGE WITHOUT NOTICE

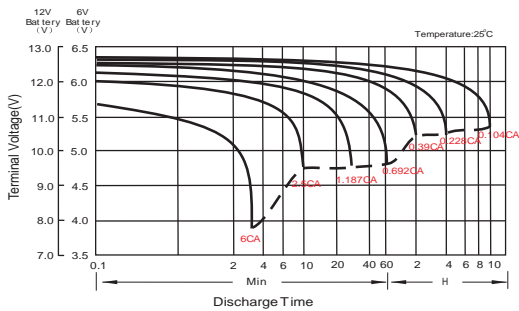
### Constant Current Discharge (Amperes) at 20°C

| F.V/Time   | 10min | 15min | 20min | 30min | 45min | 1h   | 2h   | 3h   | 4h   | 5h   | 6h   | 8h   | 10h  | 20h  |
|------------|-------|-------|-------|-------|-------|------|------|------|------|------|------|------|------|------|
| 1.85V/cell | 130.4 | 108.7 | 93.3  | 73.2  | 56.8  | 46.1 | 27.5 | 19.8 | 15.9 | 13.2 | 11.5 | 8.92 | 7.44 | 3.94 |
| 1.80V/cell | 147.9 | 121.2 | 103.3 | 80.1  | 61.1  | 49.2 | 29.0 | 21.1 | 16.7 | 13.9 | 12.0 | 9.38 | 7.79 | 4.12 |
| 1.75V/cell | 162.3 | 131.1 | 110.2 | 84.2  | 63.4  | 51.0 | 29.6 | 21.4 | 17.2 | 14.2 | 12.2 | 9.49 | 7.88 | 4.19 |
| 1.70V/cell | 173.6 | 138.1 | 114.7 | 86.6  | 64.8  | 51.7 | 30.0 | 21.6 | 17.3 | 14.3 | 12.4 | 9.62 | 7.95 | 4.22 |
| 1.67V/cell | 179.6 | 141.6 | 117.0 | 87.7  | 65.1  | 51.9 | 30.1 | 21.8 | 17.4 | 14.4 | 12.5 | 9.75 | 8.03 | 4.24 |
| 1.60V/cell | 188.8 | 147.0 | 122.3 | 89.9  | 66.8  | 53.3 | 30.6 | 22.2 | 17.8 | 14.8 | 12.8 | 9.98 | 8.18 | 4.26 |

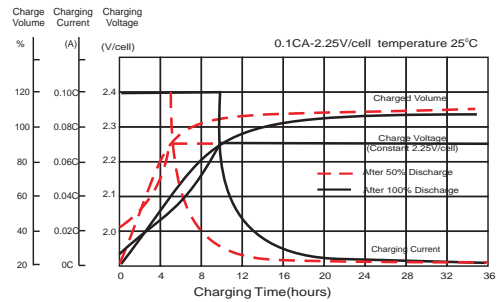
### Constant Power Discharge (Watts) at 20°C

| F.V/Time   | 10min | 15min | 20min | 30min | 45min | 1h    | 2h   | 3h   | 4h   | 5h   | 6h   | 8h   | 10h  | 20h  |
|------------|-------|-------|-------|-------|-------|-------|------|------|------|------|------|------|------|------|
| 1.85V/cell | 243.6 | 205.1 | 177.8 | 140.9 | 110.2 | 89.9  | 54.0 | 39.0 | 31.4 | 26.1 | 22.8 | 17.8 | 14.9 | 7.89 |
| 1.80V/cell | 272.9 | 225.5 | 193.9 | 151.9 | 117.7 | 95.5  | 56.6 | 41.3 | 32.9 | 27.3 | 23.8 | 18.6 | 15.5 | 8.24 |
| 1.75V/cell | 294.7 | 241.1 | 204.9 | 158.3 | 121.0 | 98.4  | 57.4 | 41.8 | 33.6 | 27.8 | 24.1 | 18.8 | 15.7 | 8.35 |
| 1.70V/cell | 308.2 | 250.4 | 211.6 | 162.1 | 123.3 | 99.4  | 58.1 | 42.1 | 33.8 | 27.9 | 24.4 | 19.1 | 15.8 | 8.41 |
| 1.67V/cell | 317.7 | 255.6 | 215.1 | 163.8 | 123.4 | 99.6  | 58.2 | 42.3 | 34.0 | 28.2 | 24.6 | 19.3 | 16.0 | 8.44 |
| 1.60V/cell | 324.8 | 260.2 | 221.6 | 165.7 | 125.3 | 101.2 | 58.7 | 42.8 | 34.5 | 28.8 | 25.0 | 19.7 | 16.2 | 8.47 |

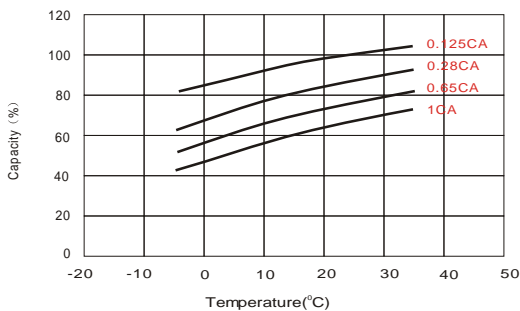
### Discharge Characteristics



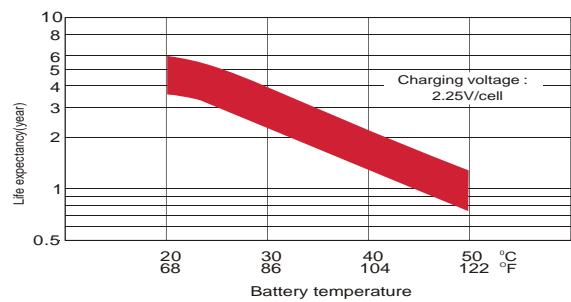
### Float Charging Characteristics



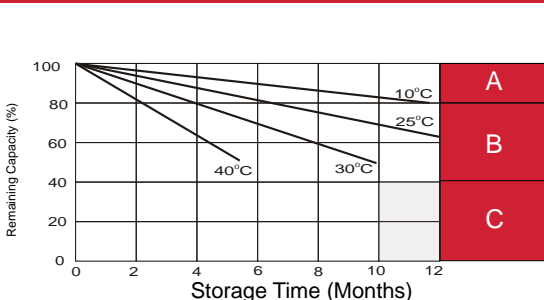
### Temperature Effects in Relation to Battery Capacity



### 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.