

| Specification                    |   | Code:460-8515                 |
|----------------------------------|---|-------------------------------|
| Nominal Voltage                  | 12V   |                               |
| Watts(15min Rate)                | 20.7 Watts at 1.67V/cell  |                               |
| Dimension                        | Length  | 90 ± 1mm (3.54 inches)        |
|                                  | Width   | 70 ± 1mm (2.76 inches)        |
|                                  | Container Height  | 101 ± 2mm (3.98 inches)       |
|                                  | Total Height (with Terminal)  | 107 ± 2mm (4.21 inches)       |
| Approx Weight                    | Approx 1.80 kg (3.97lbs)  |                               |
| Terminal                         | T1 / T2   |                               |
| Container Material               | ABS   |                               |
| Rated Capacity                   | 5.00 AH/0.50A   | (10hr, 1.80V/cell, 25°C/77°F) |
|                                  | 4.85 AH/0.606A  | (8hr, 1.75V/cell, 25°C/77°F)  |
|                                  | 4.47 AH/0.894A  | (5hr, 1.75V/cell, 25°C/77°F)  |
|                                  | 4.05 AH/1.35A   | (3hr, 1.75V/cell, 25°C/77°F)  |
|                                  | 3.74 AH/3.74A   | (1hr, 1.60V/cell, 25°C/77°F)  |
| Max. Discharge Current           | 81A (5s)  |                               |
| Internal Resistance              | Approx 25mΩ   |                               |
| 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 1.62A. 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

- ◆ UPS (High rate)
- ◆ High power backup supply
- ◆ Emergency power supply
- ◆ Starting system
- ◆ Power tools
- ◆ Emergency lighting
- ◆ Electric starting

### Constant Current Discharge (Amperes) at 25 °C (77°F)

| F.V/Time   | 5min | 10min | 15min | 20min | 30min | 45min | 1h   | 2h   | 3h   | 4h   | 5h    | 6h    | 8h    | 10h   | 20h   |
|------------|------|-------|-------|-------|-------|-------|------|------|------|------|-------|-------|-------|-------|-------|
| 1.85V/cell | 17.9 | 12.0  | 9.35  | 7.78  | 5.80  | 4.21  | 3.29 | 1.78 | 1.27 | 1.01 | 0.839 | 0.728 | 0.582 | 0.487 | 0.265 |
| 1.80V/cell | 20.2 | 13.1  | 10.1  | 8.27  | 6.08  | 4.36  | 3.41 | 1.84 | 1.31 | 1.03 | 0.866 | 0.752 | 0.606 | 0.501 | 0.270 |
| 1.75V/cell | 22.1 | 13.9  | 10.7  | 8.69  | 6.32  | 4.52  | 3.52 | 1.90 | 1.35 | 1.07 | 0.894 | 0.775 | 0.621 | 0.514 | 0.275 |
| 1.70V/cell | 23.6 | 14.6  | 11.2  | 9.02  | 6.57  | 4.66  | 3.61 | 1.95 | 1.39 | 1.10 | 0.918 | 0.794 | 0.632 | 0.524 | 0.279 |
| 1.67V/cell | 24.7 | 15.1  | 11.5  | 9.30  | 6.73  | 4.77  | 3.68 | 1.99 | 1.42 | 1.12 | 0.934 | 0.807 | 0.640 | 0.529 | 0.281 |
| 1.60V/cell | 25.5 | 15.5  | 11.8  | 9.49  | 6.83  | 4.85  | 3.74 | 2.02 | 1.43 | 1.14 | 0.946 | 0.818 | 0.646 | 0.534 | 0.282 |

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

| F.V/Time   | 5min | 10min | 15min | 20min | 30min | 45min | 1h   | 2h   | 3h   | 4h   | 5h   | 6h   | 8h   | 10h   | 20h   |
|------------|------|-------|-------|-------|-------|-------|------|------|------|------|------|------|------|-------|-------|
| 1.85V/cell | 33.5 | 22.4  | 17.6  | 14.7  | 11.0  | 8.08  | 6.35 | 3.47 | 2.48 | 1.97 | 1.64 | 1.43 | 1.15 | 0.964 | 0.524 |
| 1.80V/cell | 36.5 | 24.1  | 18.6  | 15.5  | 11.5  | 8.30  | 6.54 | 3.55 | 2.54 | 2.01 | 1.69 | 1.47 | 1.19 | 0.989 | 0.534 |
| 1.75V/cell | 39.6 | 25.2  | 19.6  | 16.1  | 11.8  | 8.56  | 6.73 | 3.65 | 2.61 | 2.07 | 1.74 | 1.51 | 1.22 | 1.015 | 0.544 |
| 1.70V/cell | 41.7 | 26.2  | 20.3  | 16.6  | 12.2  | 8.77  | 6.88 | 3.75 | 2.68 | 2.13 | 1.78 | 1.55 | 1.24 | 1.034 | 0.551 |
| 1.67V/cell | 43.0 | 26.7  | 20.7  | 16.9  | 12.4  | 8.92  | 6.97 | 3.81 | 2.72 | 2.16 | 1.81 | 1.57 | 1.25 | 1.043 | 0.554 |
| 1.60V/cell | 43.5 | 27.0  | 20.8  | 17.0  | 12.4  | 8.99  | 7.04 | 3.85 | 2.74 | 2.18 | 1.82 | 1.58 | 1.26 | 1.049 | 0.556 |

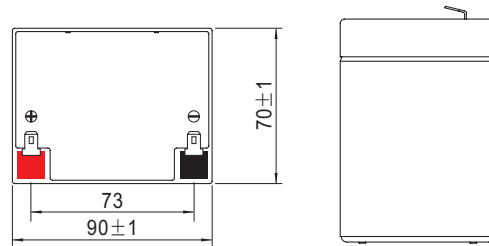
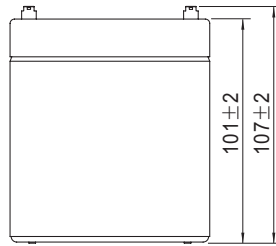
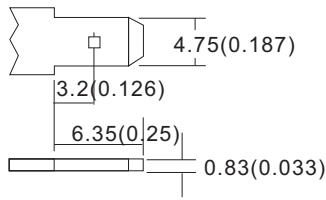
Specifications subject to change without notice.



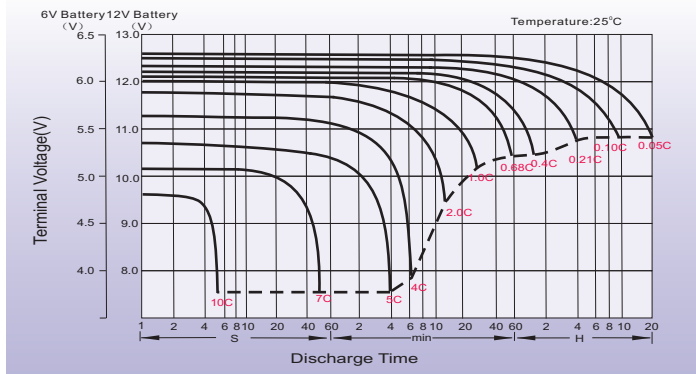
## Dimensions

### T1 Terminal

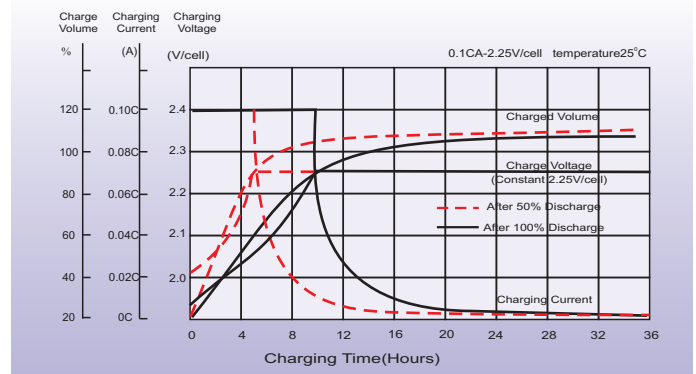
Unit: mm [inches]



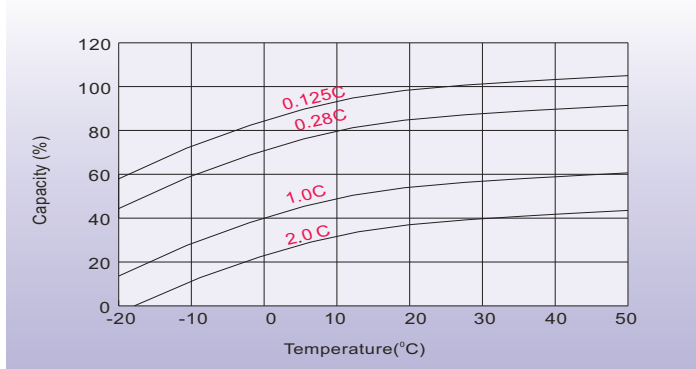
## Discharge Characteristics



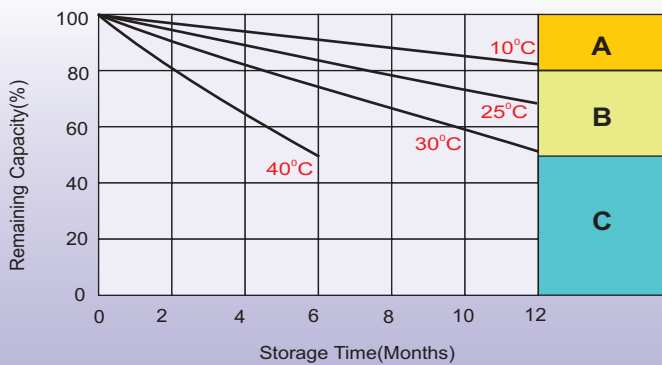
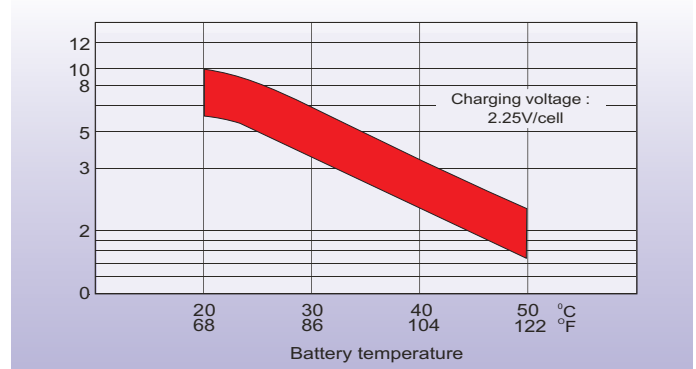
## Float Charging Characteristics



## 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 limited current 0.25CA and constant volatge 2.25V/cell.
  2. Charged for above 20hours at limited current 0.25CA and constant volatge 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.

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