

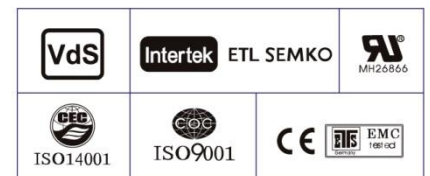
## Specification

|                                  |   |  |
|----------------------------------|---|--|
| Nominal Voltage                  | 6V  |  |
| Nominal Capacity(20HR)           | 3.2AH   |  |
| Dimensions                       | Length  | 134 ± 2mm (5.28 inches)  |
|                                  | Width   | 34 ± 1mm (1.34 inches)   |
|                                  | Container Height  | 60 ± 1mm (2.36 inches)   |
|                                  | Total Height (with Terminal)  | 66 ± 1mm (2.60 inches)   |
| Approx Weight                    | Approx 0.67 kg (1.48lbs)  |  |
| Terminal                         | T1  |  |
| Container Material               | ABS   |  |
| Rated Capacity                   | 3.20 AH/0.160A  | (20hr, 1.80V/cell, 25°C/77°F)  |
|                                  | 2.98 AH/0.298A  | (10hr, 1.80V/cell, 25°C/77°F)  |
|                                  | 2.69 AH/0.538A  | (5hr, 1.75V/cell, 25°C/77°F)   |
|                                  | 2.35 AH/0.783A  | (3hr, 1.75V/cell, 25°C/77°F)   |
|                                  | 1.94 AH/1.94A   | (1hr, 1.60V/cell, 25°C/77°F)   |
| Max. Discharge Current           | 48A (5s)  |  |
| Internal Resistance              | Approx 28mΩ   |  |
| 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 0.96A. Voltage   | 7.2V~7.5V at 25°C(77°F)Temp. Coefficient -15mV/°C  |
|                                  | Standby Use   | No limit on Initial Charging Current Voltage<br>6.75V~6.9V at 25°C(77°F)Temp. Coefficient -10mV/°C |
| Capacity affected by Temperature | 40°C (104°F)  | 103%   |
|                                  | 25°C (77°F)   | 100%   |
|                                  | 0°C (32°F)  | 86%  |
| Self Discharge                   | 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

- ◆ All purpose
- ◆ Uninterruptable Power Supply (UPS)
- ◆ Electric Power System (EPS)
- ◆ Emergency backup power supply
- ◆ Emergency light
- ◆ Railway signal
- ◆ Aircraft signal
- ◆ Alarm and security system
- ◆ Electronic apparatus and equipment
- ◆ Communication power supply
- ◆ DC power supply
- ◆ Auto control system



## 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 | 6.14 | 4.28  | 3.53  | 3.06  | 2.46  | 1.89  | 1.55 | 0.944 | 0.719 | 0.591 | 0.502 | 0.435 | 0.345 | 0.287 | 0.158 |
| 1.80V/cell | 7.55 | 5.11  | 4.10  | 3.47  | 2.72  | 2.06  | 1.66 | 1.00  | 0.756 | 0.622 | 0.524 | 0.454 | 0.358 | 0.298 | 0.160 |
| 1.75V/cell | 8.95 | 5.78  | 4.52  | 3.77  | 2.91  | 2.19  | 1.75 | 1.05  | 0.783 | 0.641 | 0.538 | 0.465 | 0.368 | 0.303 | 0.162 |
| 1.70V/cell | 10.2 | 6.37  | 4.89  | 4.05  | 3.05  | 2.27  | 1.82 | 1.09  | 0.809 | 0.657 | 0.551 | 0.476 | 0.374 | 0.308 | 0.164 |
| 1.65V/cell | 11.2 | 6.85  | 5.17  | 4.25  | 3.18  | 2.36  | 1.90 | 1.12  | 0.829 | 0.670 | 0.563 | 0.485 | 0.380 | 0.313 | 0.167 |
| 1.60V/cell | 11.8 | 7.14  | 5.39  | 4.39  | 3.27  | 2.41  | 1.94 | 1.16  | 0.849 | 0.687 | 0.575 | 0.495 | 0.388 | 0.318 | 0.168 |

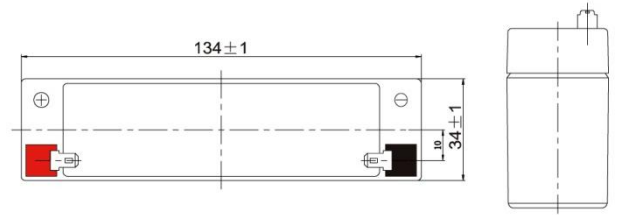
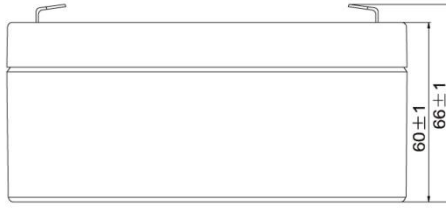
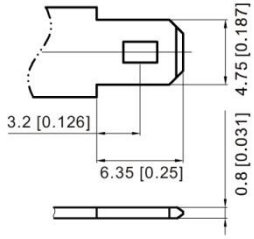
## Constant Power Discharge (Watts/cell) at 25 °C (77°F)

| F.V/Time   | 5min | 10min | 15min | 20min | 30min | 45min | 1h   | 2h   | 3h   | 4h   | 5h   | 6h    | 8h    | 10h   | 20h   |
|------------|------|-------|-------|-------|-------|-------|------|------|------|------|------|-------|-------|-------|-------|
| 1.85V/cell | 11.6 | 8.16  | 6.79  | 5.93  | 4.79  | 3.71  | 3.04 | 1.87 | 1.43 | 1.18 | 1.00 | 0.872 | 0.695 | 0.579 | 0.320 |
| 1.80V/cell | 14.1 | 9.64  | 7.81  | 6.66  | 5.27  | 4.01  | 3.26 | 1.98 | 1.49 | 1.23 | 1.04 | 0.905 | 0.716 | 0.596 | 0.322 |
| 1.75V/cell | 16.5 | 10.8  | 8.53  | 7.20  | 5.59  | 4.24  | 3.41 | 2.05 | 1.54 | 1.26 | 1.06 | 0.921 | 0.731 | 0.604 | 0.322 |
| 1.70V/cell | 18.5 | 11.8  | 9.15  | 7.67  | 5.83  | 4.38  | 3.53 | 2.12 | 1.58 | 1.29 | 1.08 | 0.938 | 0.738 | 0.610 | 0.326 |
| 1.65V/cell | 20.1 | 12.5  | 9.56  | 7.97  | 6.03  | 4.52  | 3.66 | 2.17 | 1.61 | 1.31 | 1.10 | 0.952 | 0.746 | 0.616 | 0.329 |
| 1.60V/cell | 20.8 | 12.9  | 9.86  | 8.13  | 6.13  | 4.58  | 3.71 | 2.22 | 1.64 | 1.33 | 1.12 | 0.966 | 0.758 | 0.623 | 0.330 |

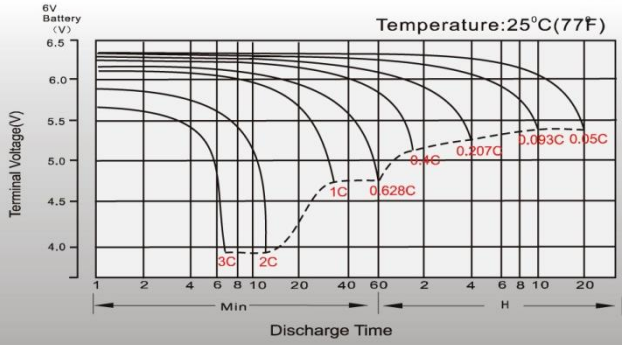
# Dimensions

## T1 Terminal

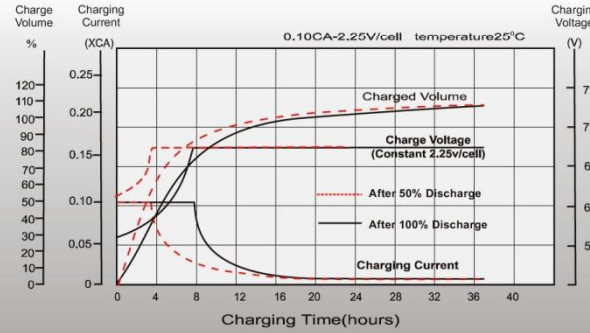
Unit: mm [inches]



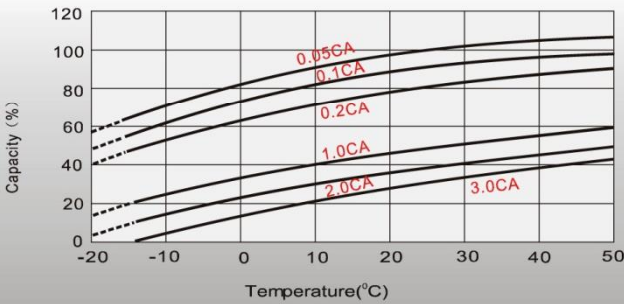
## Discharge Characteristics



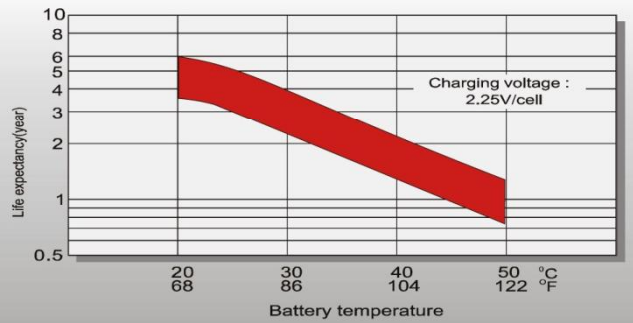
## Float Charging Characteristics



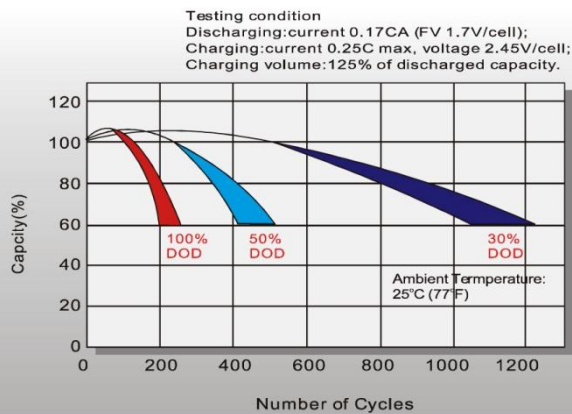
## Temperature Effects in Relation to Battery Capacity



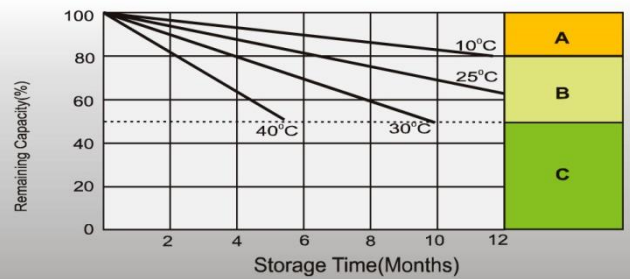
## Effect of Temperature on Long Term Float Life



## Cycle Life in Relation to Depth of Discharge



## 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 20 hours at limited current 0.25CA and constant voltage 2.45V/cell.  
3. Charged for 8-10 hours 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.

## Sales Office

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