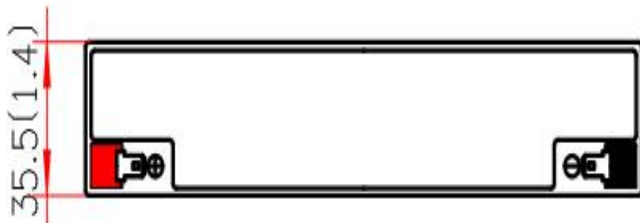
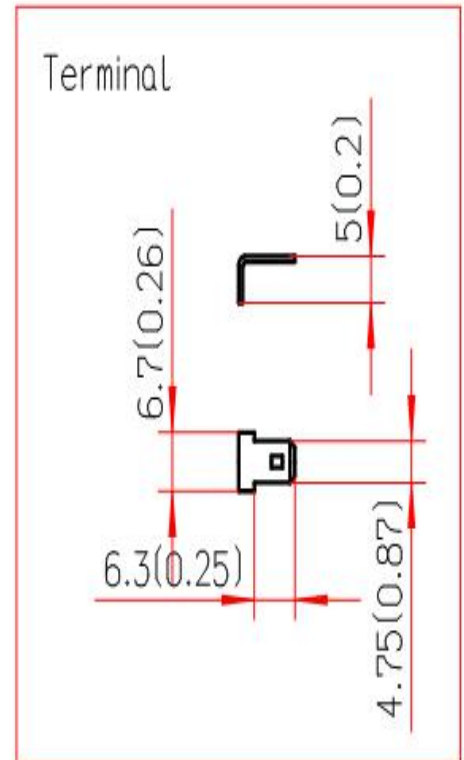
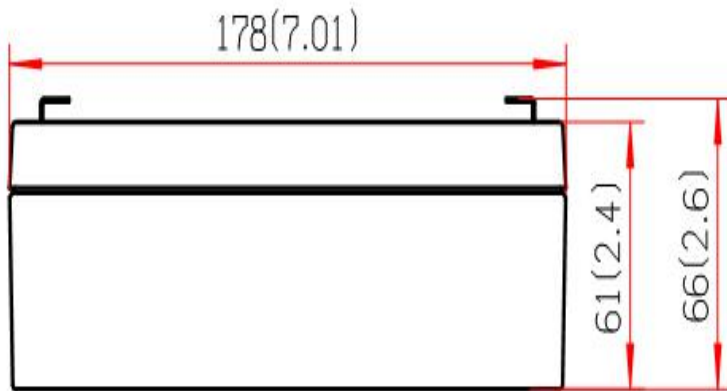


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## I • Structure

The battery consists mainly of positive plates, negative plates, separators, electrolyte, valves, a container and a cover.  
The electrolyte is absorbed in both positive/negative plate and separators.

unit:mm(inch)



## II. Performance Specifications

**Nominal Voltage (V)**.....12 volts (6 cells in series);

### Nominal Capacity (AH)

- 20 Hour rate F.V.(1.75V/cell) (0.11A to 10.5volts) ..... **2.2 AH;**
- 10 Hour rate F.V.(1.75V/cell) (0.209 to 10.5volts) ..... **2.09 AH;**
- 5 Hour rate F.V.(1.75V/cell) (0.374A to 10.5volts) ..... **1.87 AH**
- 3 Hour rate F.V.(1.75V/cell) (0.55A to 10.5volts) ..... **1.65 AH;**
- 27 Min rate F.V.(1.6V/cell) (2.2A to 9.6volts) ..... **0.99AH;**
- 7 Min rate F.V.(1.6V/cell) (6.6A to 9.6volts) ..... **0.77 AH;**

**Approximate Weight** ..... **0.85Kg;**

**Terminal** ..... **F1;**

**Maximum Discharge Current For 5 sec. (A)**..... **33A;**

**Maximum Charge Current (A)**..... **0.66A;**

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### Ambient Temperature

Charge .....0°C (32°F) ~ 40°C (104°F);  
 Discharge ..... -20°C (-4°F) ~ 50°C (122°F);  
 Storage ..... -20°C (-4°F) ~ 40°C (104°F);

Expected Life for Standby Use at 20°C ..... 3~5 years;

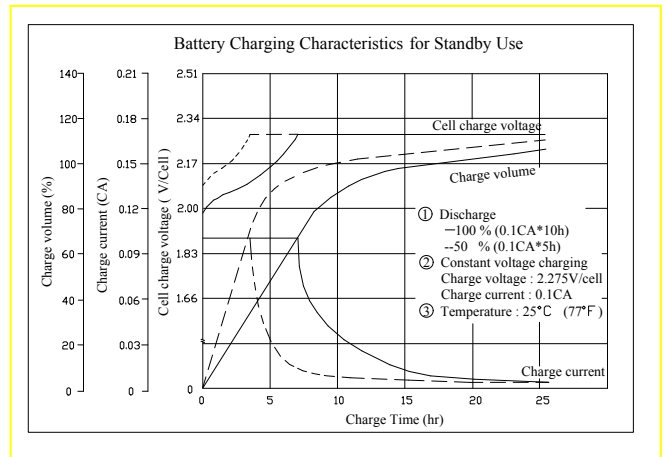
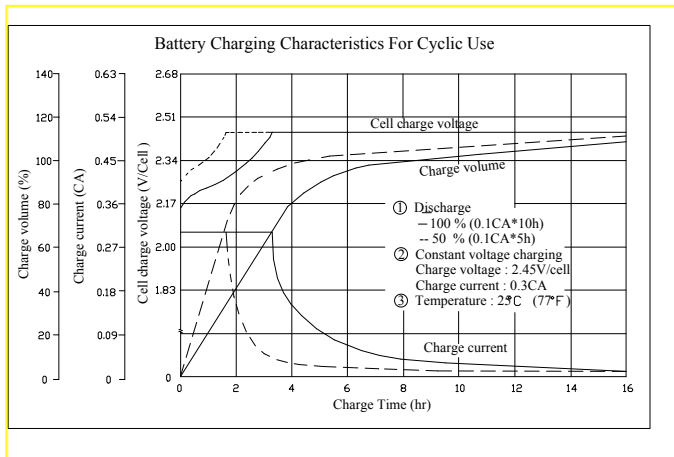
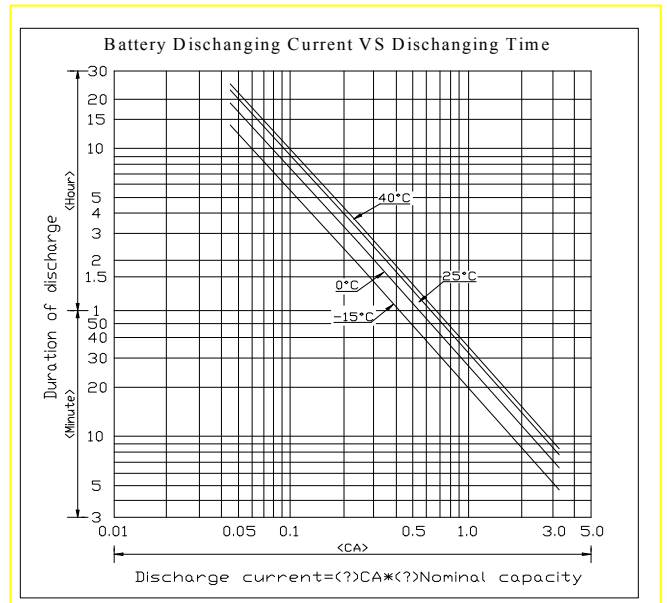
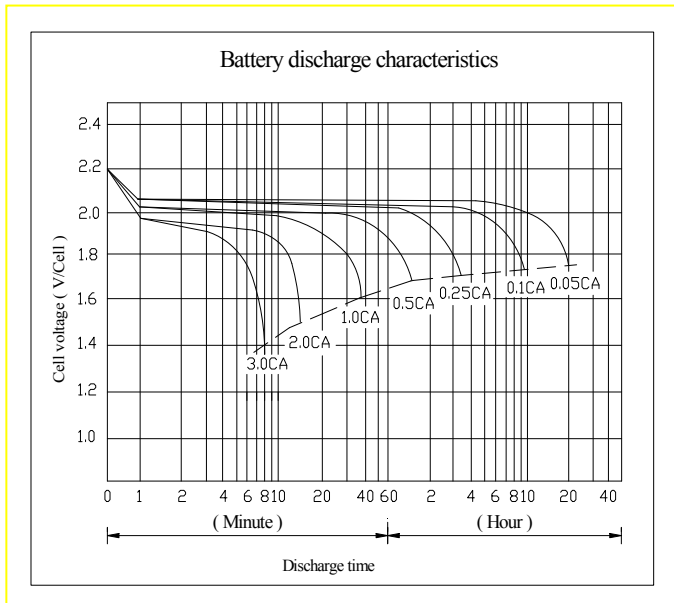
Case ..... ABS;

### Dimension (mm)

Length (±1.5mm) ..... 178;  
 Width (±1.5mm) ..... 35.5;  
 Container Height (±1.5mm) ..... 61;  
 Total Height (±1.5mm) ..... 66;

Application.....UPS, Laboratory Equipment, Toy-Cars, Power Packs, Fishing Lights.

### Battery Characteristics Graph



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### Effect of temperature on capacity (20HR)

Temperature	Dependency of Capacity (20HR )
40°C	102%
25°C	100%
0°C	85%
-15°C	65%

### Self-discharge Characteristics

Aging Time	Residual Capacity
3 Months	91%
6 Months	82%
12 Months	64%

**Note: The data mentioned above just for full charged battery.**

### III · Charging Procedure

Application	Charging method	Charge voltage at 25°C (V/cell)	Temperature compensation coefficient of charging voltage (mV/°C · cell)	Max. charging current (CA)	Charging time 0.15CA, 25°C (h)		Temp (°C)
					100% DOD	50% DOD	
For standby power source	Constant voltage charging (with current restriction)	2.25~2.30	-3	0.25	24	20	0~40°C (32~104°F)
For cycle service		2.40~2.50	-4	0.25	16	10	

**Note:**

Temperature compensation of charging voltage is not needed, when using the batteries within 15°C to 35°C range.

Manufacturer		Customer	
<b>Drafted by</b>	<b>Approved by</b>	<b>Audited by</b>	<b>Approved by</b>