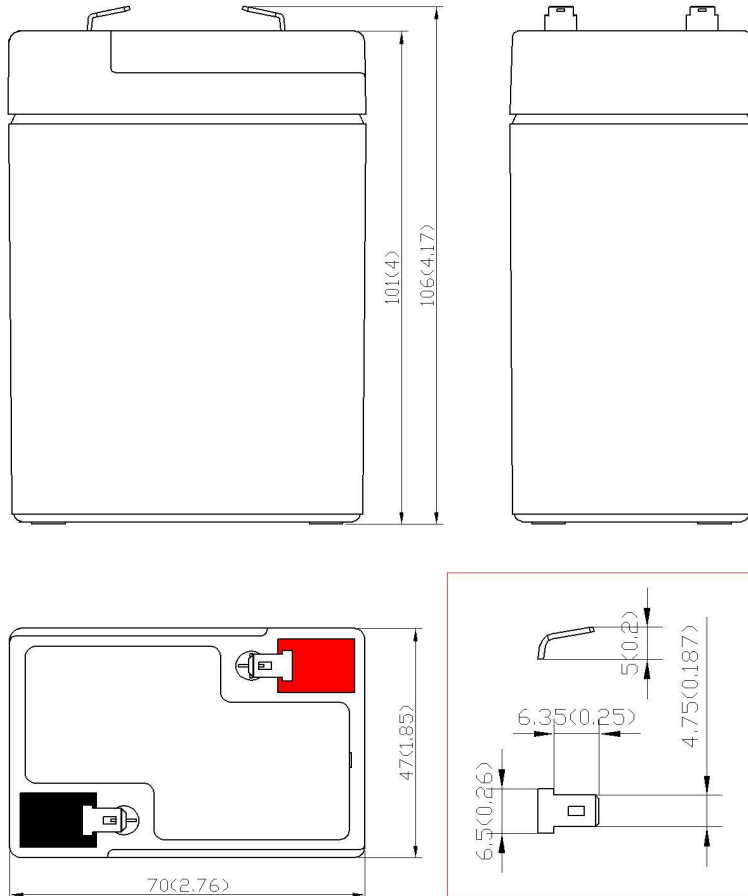


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## I · Structure

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.



## II. Performance Specifications

**Nominal Voltage (V)**.....6 volts (3cells in series);

### Nominal Capacity (AH)

20 Hour rate F.V.(1.75V/cell) (0.225A to 5.25volts) .....**4.5AH**;

10 Hour rate F.V.(1.75V/cell) (0.428A to 5.25volts) .....**4.28AH**;

5 Hour rate F.V.(1.75V/cell) (0.765A to 5.25volts) ..... **3.83AH**;

3Hour rate F.V.(1.75V/cell) (1.125A to 5.25volts) .....**3.38AH**;

27 Min rate F.V.(1.6V/cell) (4.5A to 4.8volts) ..... **2.03AH**;

7 Min rate F.V.(1.6V/cell) (13.5A to 4.8volts) ..... **1.58AH**;

**Approximate Weight** .....**0.73Kg**;

**Terminal** ..... **F1(tab no. 1870 )**;

**Maximum Discharge Current For 5 sec. (A).** .....**67.5A**;

**Maximum Charge Current (A)**.....**1.35A**;

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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;**

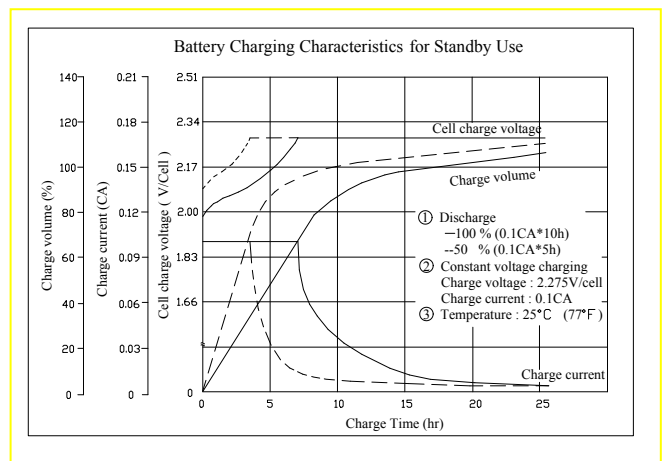
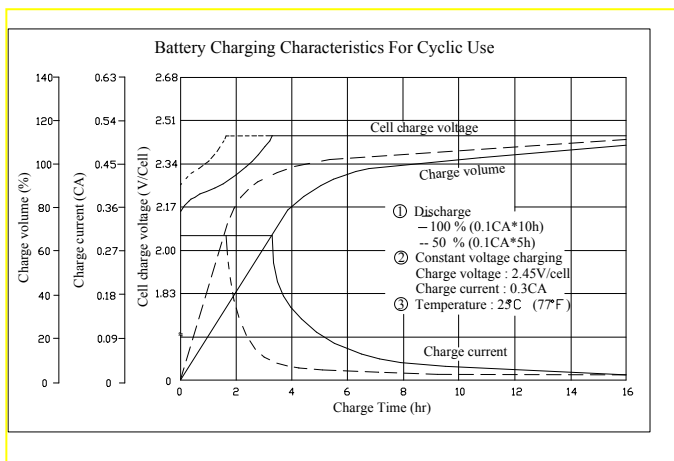
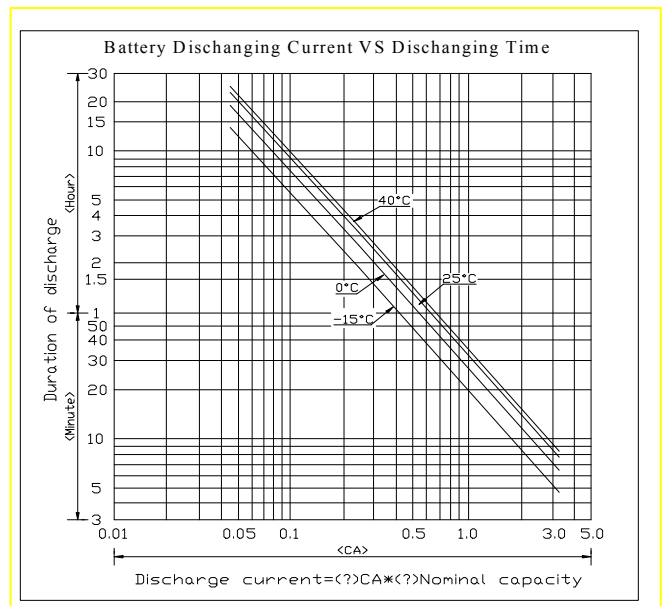
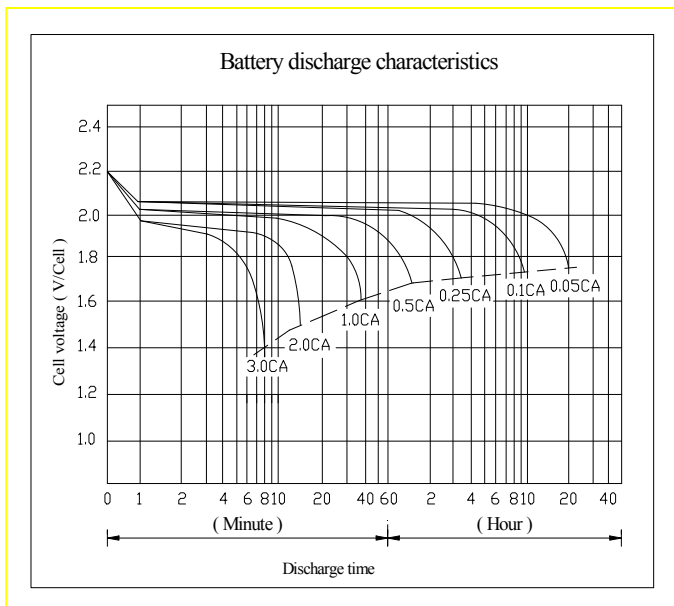
**Case** .....**ABS;**

### Dimension (mm)

**Length (±1.5mm)** .....**70;**  
**Width (±1.5mm)** .....**47;**  
**Container Height (±2mm)** .....**101;**  
**Total Height (±2mm)** .....**106;**

**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 0.1CA, 25°C(h)		Temp (°C)
					100% DOD	50% DOD	
For standby power source	Constant voltage charging (with current restriction)	2.25~2.30	-3	0.30	24	20	0~40°C (32~104°F)
For cycle service		2.40~2.50	-4	0.30	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>