TOYO®

US POWER

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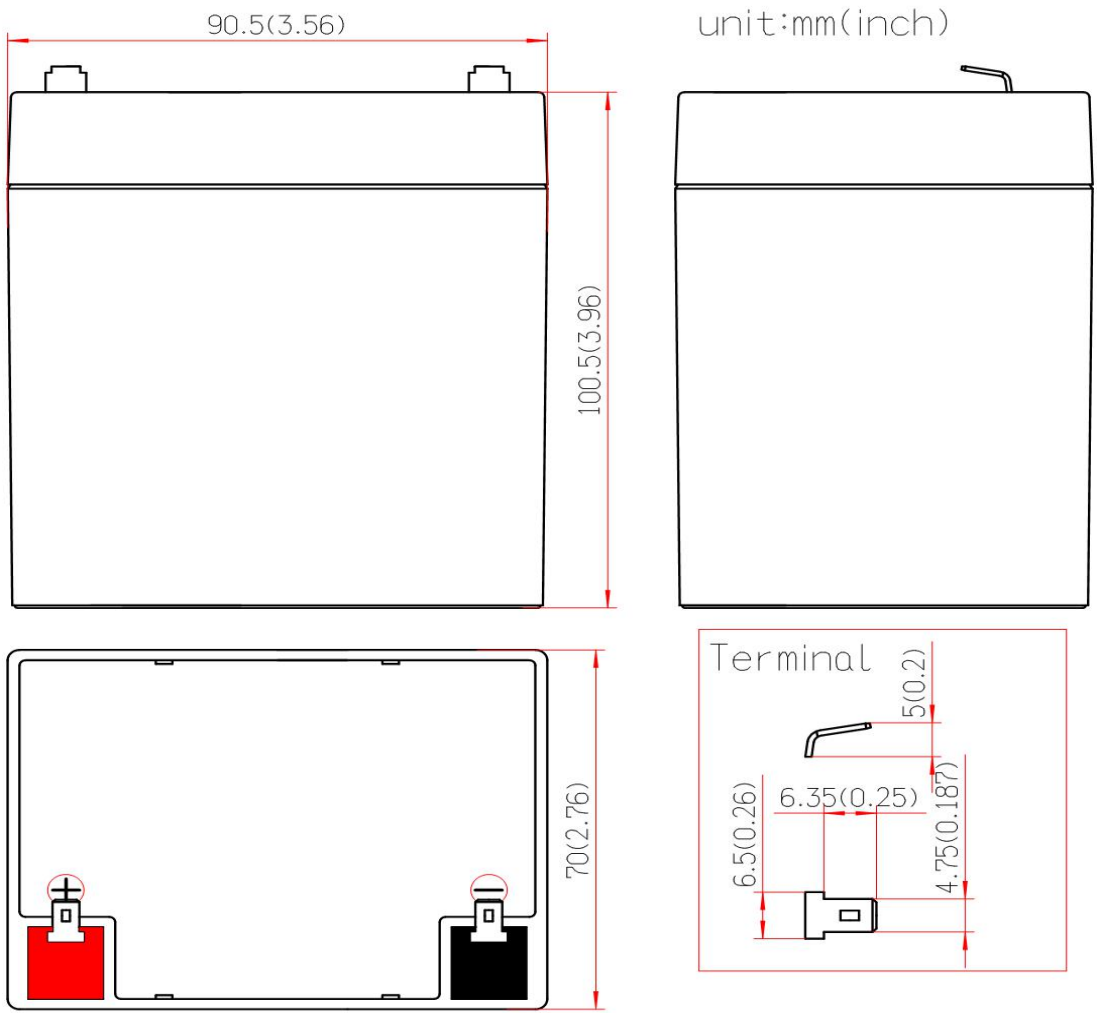
6FM5 12V5AH

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)……**12V (6 cells in series);**

- 20 Hour rate F.V.(1.75V/cell) (0.25A to10.5volts)……**5.0AH;**
- 10 Hour rate F.V.(1.75V/cell) (0.475A to10.5volts)……**4.75AH;**
- 5 Hour rate F.V.(1.75V/cell) (0.85A to10.5volts)…… **4.25AH;**
- 3 Hour rate F.V.(1.75V/cell) (1.25A to10.5volts)…… **3.75AH;**
- 27 Min rate F.V.(1.6V/cell) (5.0A to 9.6volts) ……**2.25AH;**
- 7 Min rate F.V.(1.6V/cell) (15.0A to 9.6volts) ……**1.75AH;**
- **Approximate Weight** ……**1.65kg;**
- **Terminal**…… **F1(tab no. 1870);**
- **Maximum Discharge Current For 5 sec. (A)** …… **75A;**
- **Maximum Charge Current (A)** …… **1.5A;**

Ambient Temperature

Charge……0℃(32℉) ～ 40℃(104℉);

Discharge……-20℃(-4℉) ～ 50℃(122℉);

Storage ……-20℃(-4℉) ～ 40℃(104℉);

- **Expected Life for Standby Use at 25℃**…… **3~5 years;**
- **Case**……ABS;

Dimension (㎜/inch)

Length(±1.5㎜)…… **90.5;**

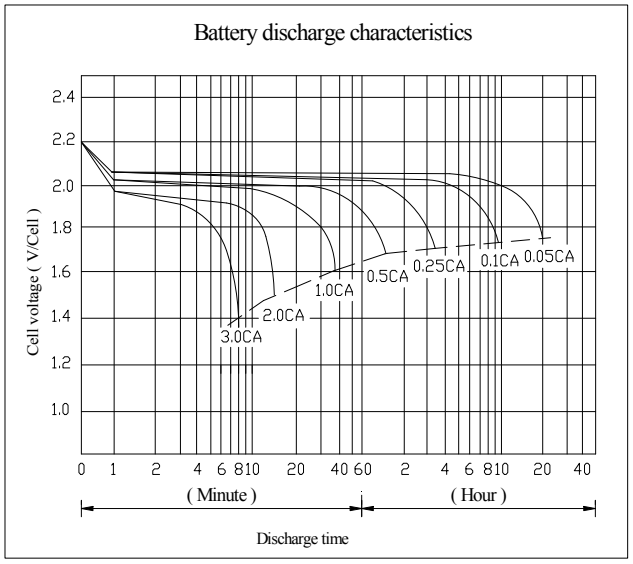
Width(±1.5㎜)…… **70.0;**

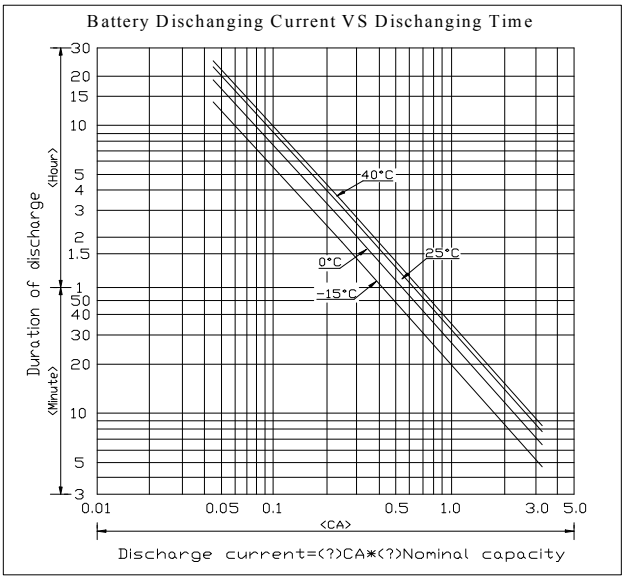
Container Height (±2.0㎜)…… **100;**

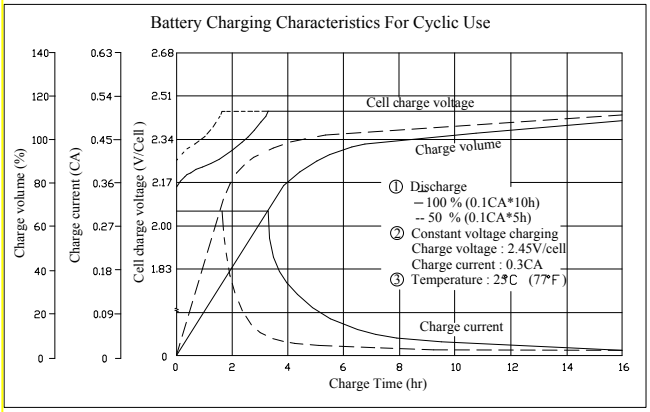
Total Height(±2.0㎜) …… **105;**

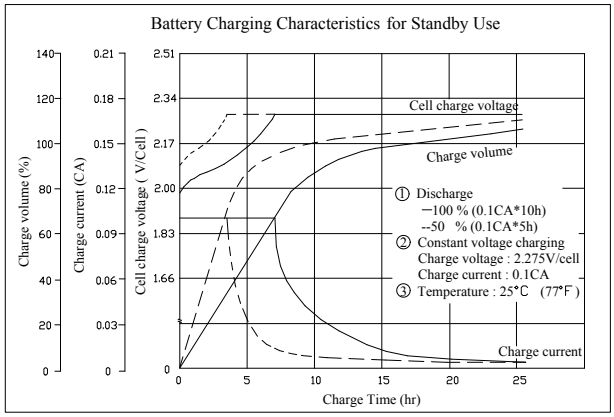
Application.....**UPS, Laboratory Equipment, Toy-Cars, Power Packs, Fishing Lights.**

Battery Characteristics Graph









Effect of temperature on capacity (20HR)

Temperature	Dependency of Capacity (20HR)
40℃	**102%**
25℃	**100%**
0℃	**85%**
-15℃	**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℃ (V/cell)	Temperature compensation coefficient of charging voltage (mV/℃·cell)	Max. charging current (CA)	Charging time 0.15CA, 25℃(h)		Temp (℃)
					100% DOD	50% DOD	
For standby power source	Constant voltage charging (with current restriction)	2.25～2.30	-3	0.3	24	20	0～40℃ (32～104℉)
For cycle service		2.40～2.50	-4	0.3	16	10	

Note:

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

Manufacturer		Customer	
Drafted by	**Approved by**	**Audited by**	**Approved by**