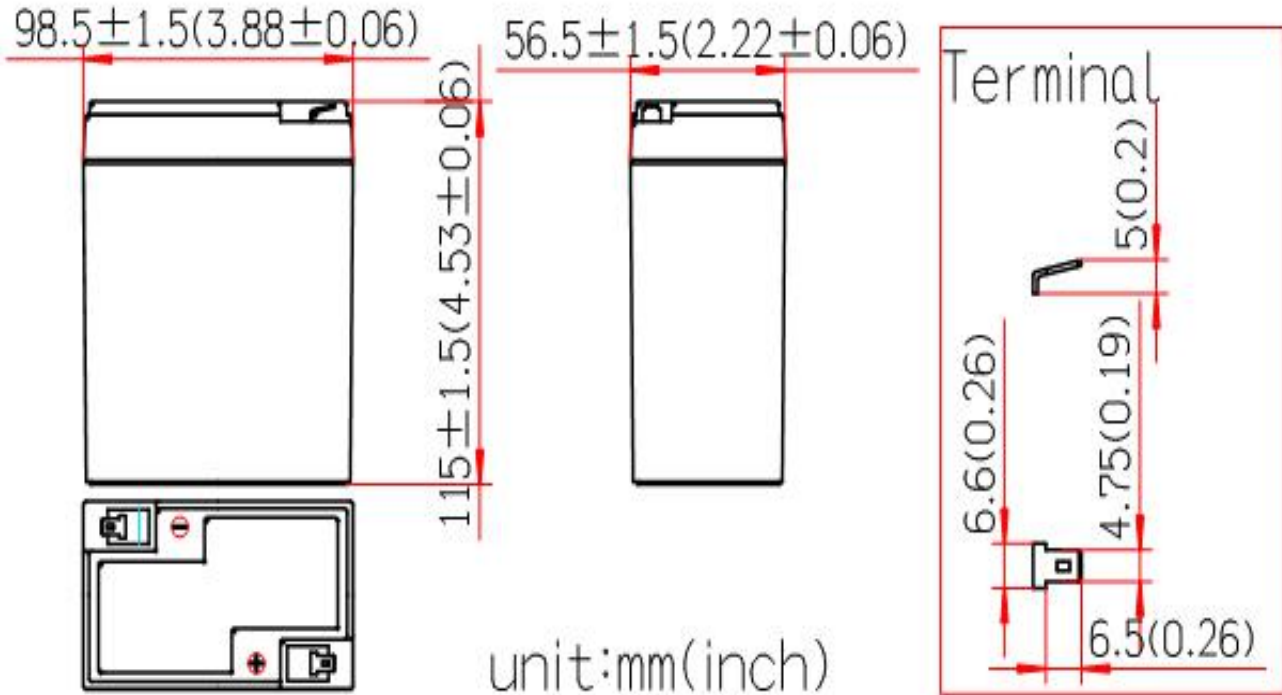


Tel	(305) 468-1975	3FM8.5 6V8.5Ah	Page	Page 1 of 4
Fax	(305) 468-1995		Date	2/9/2017

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) (0.425A to 5.25volts) 8.5 AH;
- 10 Hour rate F.V.(1.75V/cell) (0.808A to 5.25volts) 8.08 AH;
- 5 Hour rate F.V.(1.75V/cell) (1.445A to 5.25volts) 7.23 AH;
- 3 Hour rate F.V.(1.75V/cell) (2.125A to 5.25volts) 6.38 AH;
- 1 Hour rate F.V.(1.75V/cell) (4.76A to 5.25volts) 4.76 AH;
- 27 Min rate F.V.(1.6V/cell) (8.5A to 4.8volts) 3.83AH;
- 7 Min rate F.V.(1.6V/cell) (25.5A to 4.8volts) 2.98 AH;

Approximate Weight 1.55Kg;

Terminal F1;

Maximum Discharge Current For 5 sec. (A)..... 127.5A;

Maximum Charge Current (A).....2.55A;

Tel	(305) 468-1975	3FM8.5 6V8.5Ah	Page	Page 2 of 4
Fax	(305) 468-1995		Date	2/9/2017

Ambient Temperature

Charge0°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;

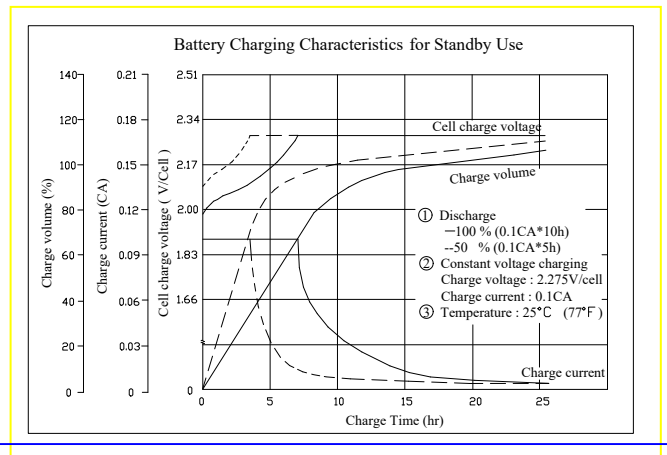
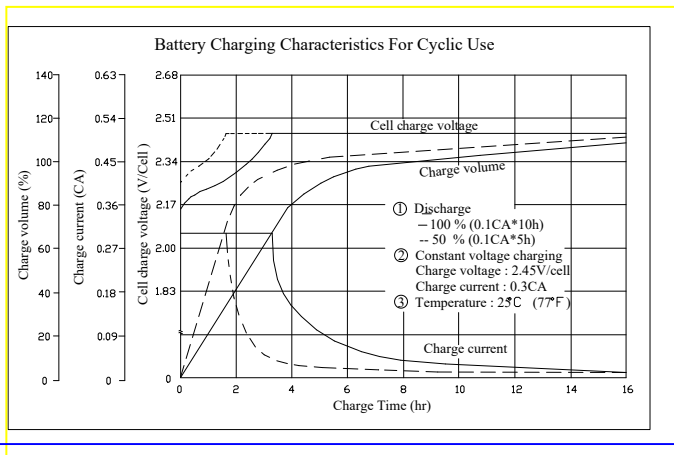
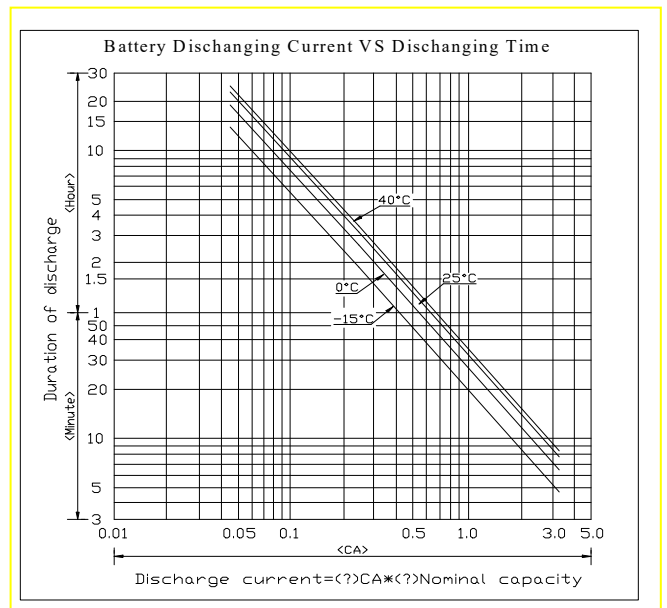
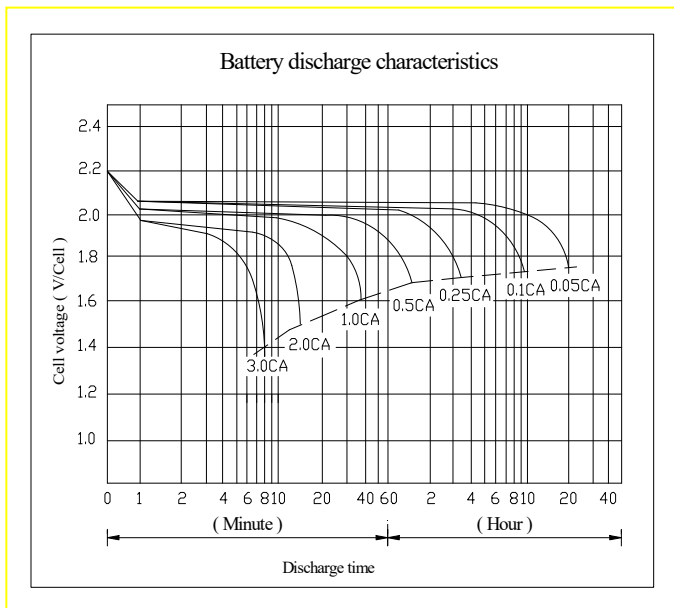
CaseABS;

Dimension (mm/inch)

Length (±1.5mm)98.5/3.88;
 Width (±1.5mm)56.5/2.22;
 Container Height (±1.5mm) .. 115/4.53;
 Total Height (±1.5mm).....115/4.53;

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

Battery Characteristics Graph



Tel	(305) 468-1975	3FM8.5 6V8.5Ah	Page	Page 3 of 4
Fax	(305) 468-1995		Date	2/9/2017

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	0.20	24	20	0~40°C (32~104°F)
For cycle service		2.40~2.50	-4	0.20	16	10	

Note:

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

TOYO®



4606 N.W. 74TH AVENUE, MIAMI, FL 33166

Tel	(305) 468-1975	3FM8.5 6V8.5Ah	Page	Page 4 of 4
Fax	(305) 468-1995		Date	2/9/2017

Manufacturer		Customer	
Drafted by	Approved by	Audited by	Approved by