TOYO®

US POWER

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

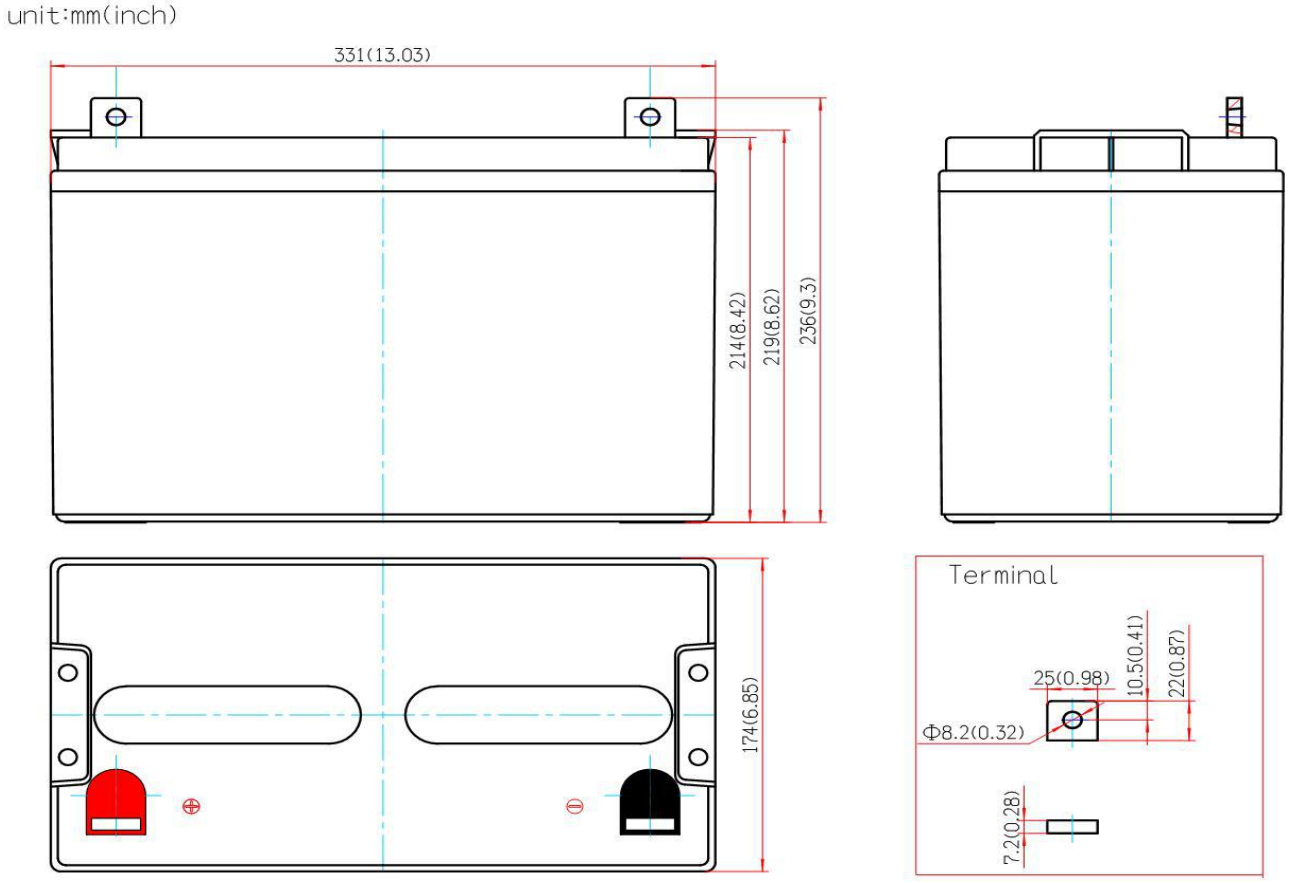
Tel	(305) 468-1978
Fax	(305) 468-1995

6GFM100A 12V100Ah

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).....12 volts (6 cells in series);

Nominal Capacity (AH)

20 Hour rate F.V.(1.75V/cell) (5.0A to 10.5volts) **.....100.0AH;**

10 Hour rate F.V.(1.75V/cell) (9.5A to 10.5volts) **.....95.0AH;**

5 Hour rate F.V.(1.75V/cell) (17.0A to 10.5volts) **.....85.0AH;**

3 Hour rate F.V.(1.75V/cell) (25.0A to 10.5volts) **.....75.0AH;**

1 Hour rate F.V.(1.75V/cell) (56.0A to 10.5volts) **..... 56.0AH;**

27 Min rate F.V.(1.6V/cell) (100.0A to 9.6volts) **..... 45.0AH;**

7 Min rate F.V.(1.6V/cell) (300.0A to 9.6volts) **..... 35.0AH**

Approximate Weight 29.5Kg;

Terminal …… L3(M8 Bolt & nut Lead terminal);

Maximum Discharge Current For 5 sec. (A).....1500A;

Maximum Charge Current (A)..... 30A;

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Ambient Temperature

Charge .....0℃ (32℉) ~ 40℃ (104℉);

Discharge ..... -20℃ (-4℉) ~ 50℃ (122℉);

Storage ..... -20℃ (-4℉) ~ 40℃ (104℉);

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

Case .....ABS;

Dimension (mm/inch)

Length (±1.5mm) 331;

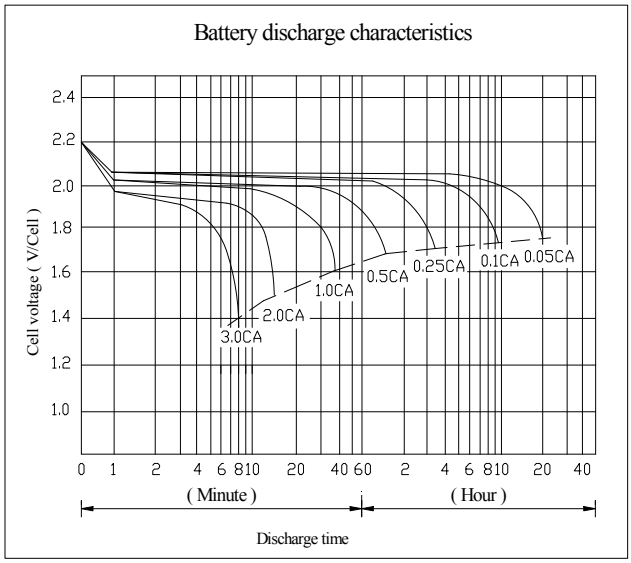
Width (±1.5mm) 174;

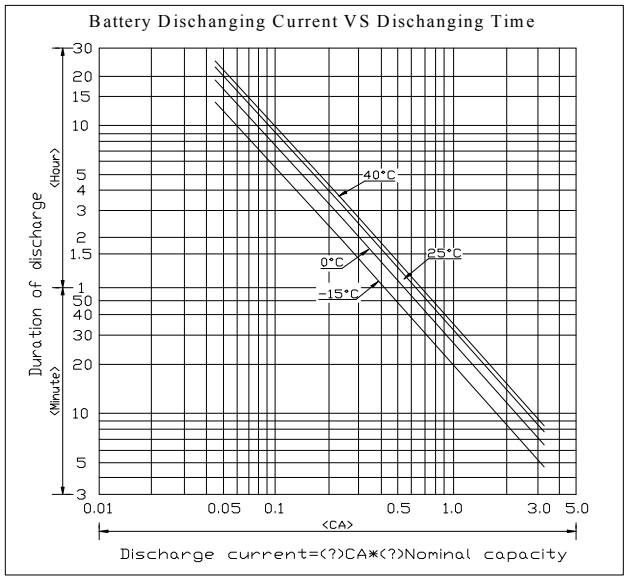
Container Height (±1.5mm) 219;

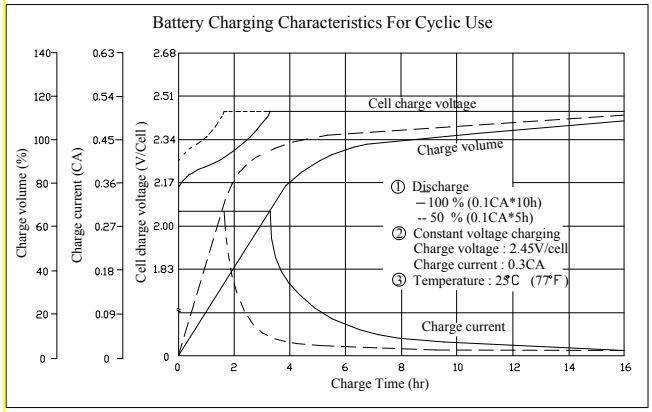
Total Height (±1.5mm)..... 236;

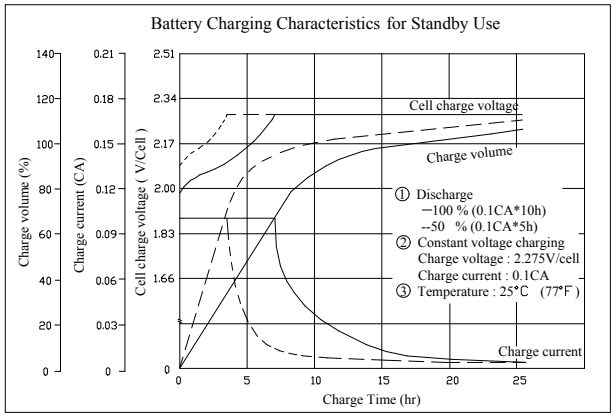
Application.....UPS, Laboratory Equipment, Toy-Cars, Power Packs, Fishing Lights.

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 0.1CA, 25℃(h)		Temp (℃)
					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℃ (32~104℉)
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℃ to 35℃ range.

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