TOYO®

US POWER

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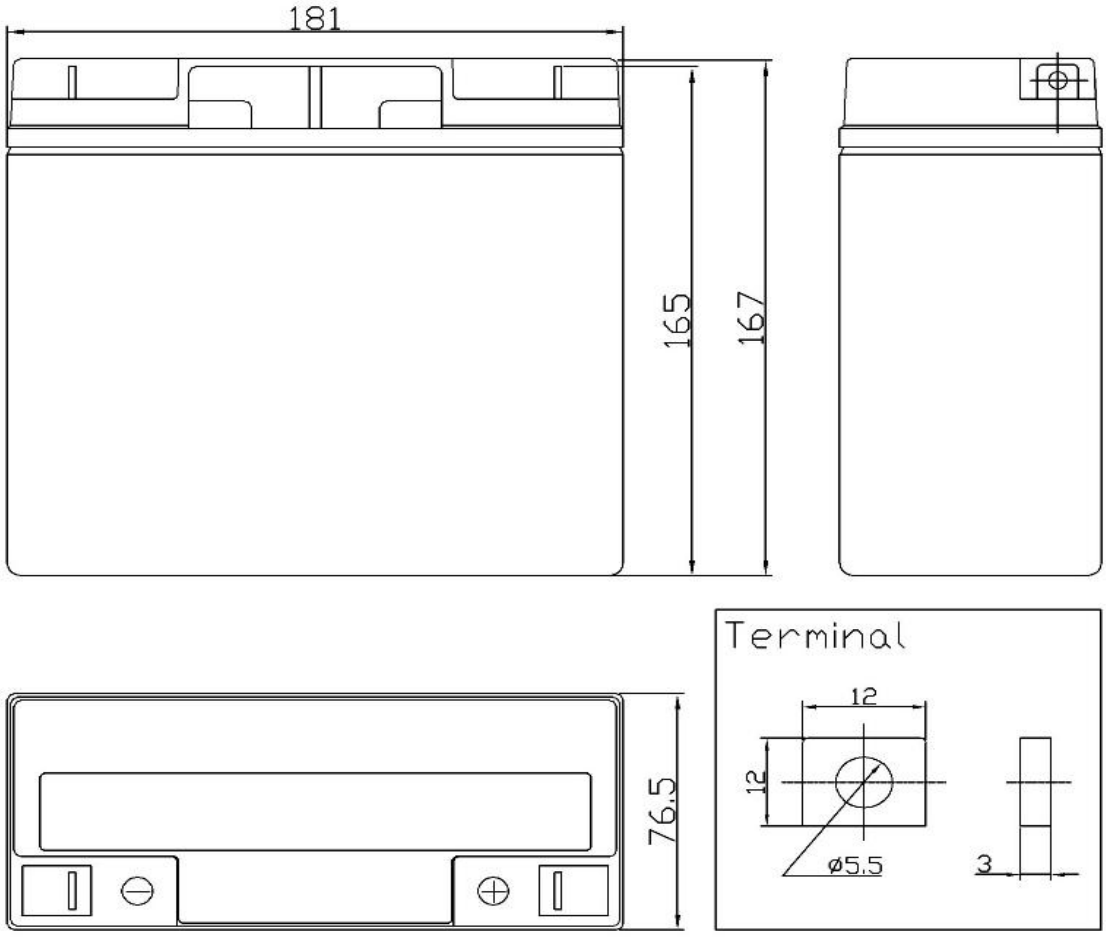
6FMH18 12V20Ah

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) (1.0A to 10.5volts) **20.0AH;**

10 Hour rate F.V.(1.75V/cell) (1.9A to 10.5volts) **19.0AH;**

5 Hour rate F.V.(1.75V/cell) (3.40A to 10.5volts) **17.0AH;**

3 Hour rate F.V.(1.75V/cell) (5.0A to 10.5volts) ..... **...15.0AH;**

27 Min rate F.V.(1.6V/cell) (20.0A to 9.6volts) **9.0AH;**

7 Min rate F.V.(1.6V/cell) (60.0A to 9.6volts) **7.0AH;**

Approximate Weight 5.60Kg;

Terminal ..... F3(Copper);

Maximum Discharge Current For 5 sec. (A). 300A;

Maximum Charge Current (A)..... 6.0A;

Ambient Temperature

Charge .....0℃ (32℉) ~ 40℃ (104℉);

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

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

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

Case ..... ABS;

Dimension (mm)

Length (±2mm) 181;

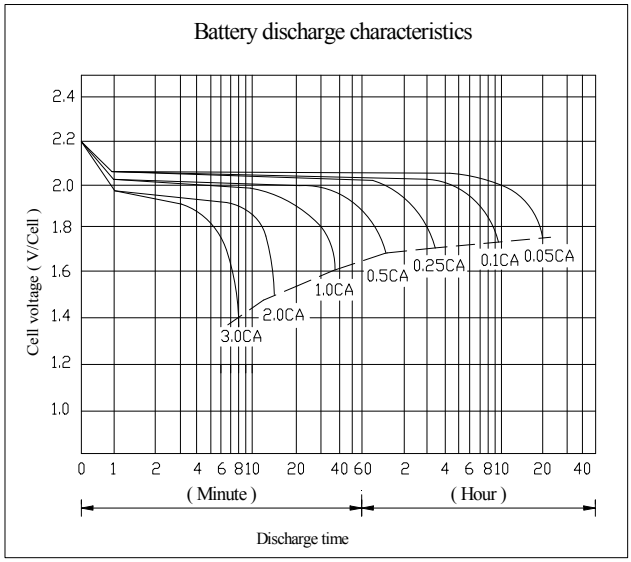
Width (±2mm) 76.5;

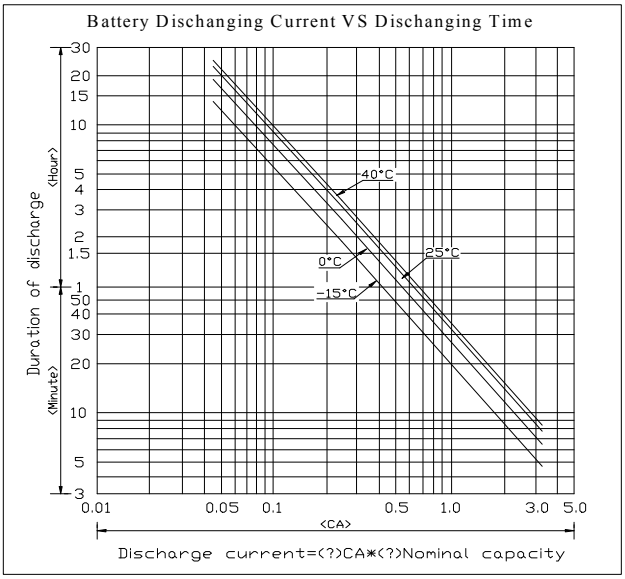
Container Height (±2mm) 167;

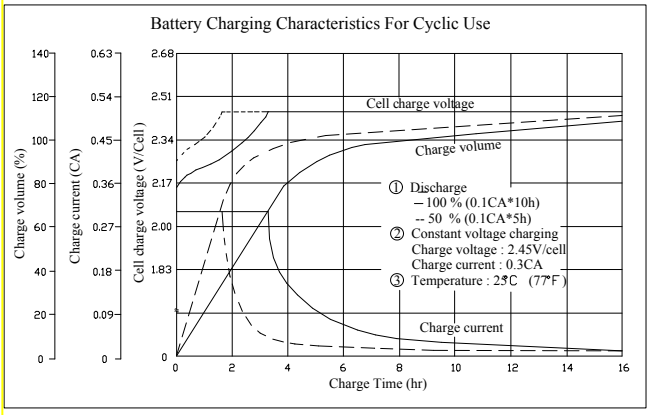
Total Height (±2mm)..... ... 167;

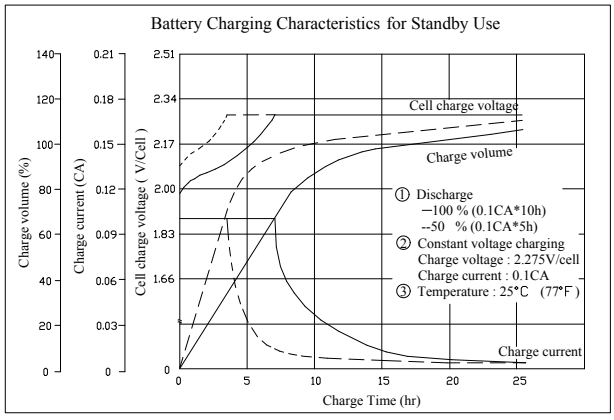
Application.....UPS, Laboratory Equipment, Toy-Cars, Power Packs, Fishing Lights.

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