

Jiangxi Hengli Technology Battery Co.,LTD

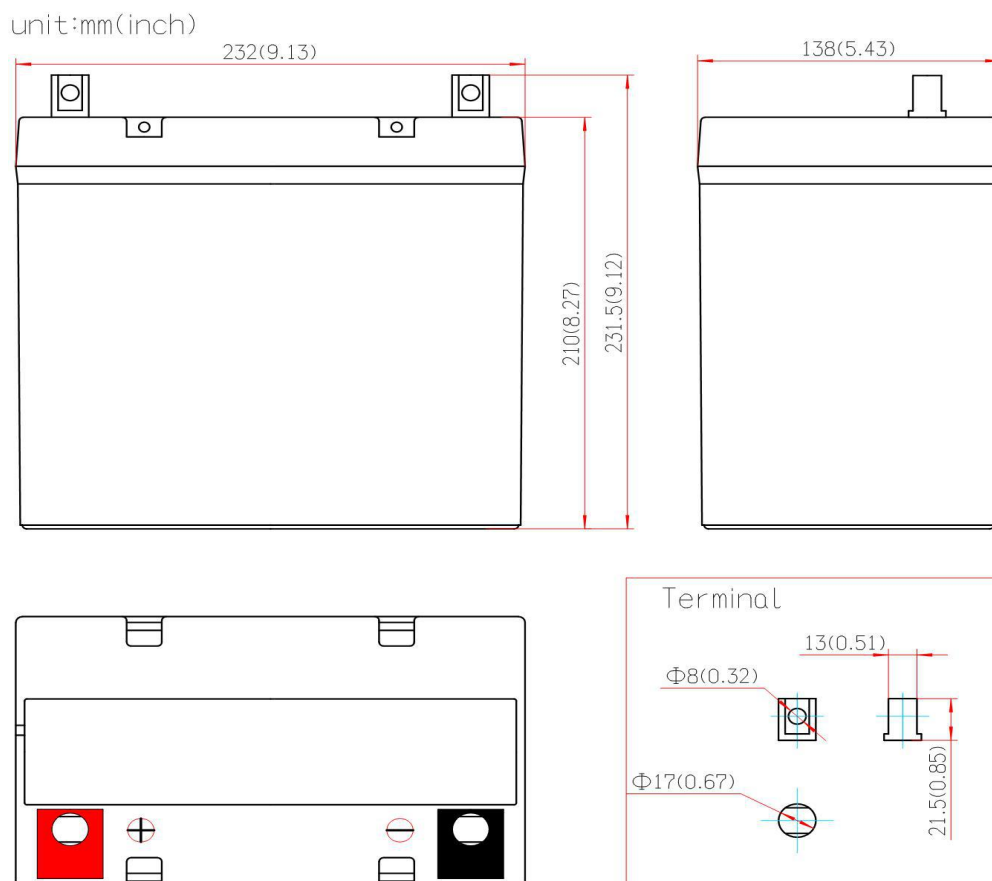
FuZhou City, JiangXi Province, China

Tel	0794-7073998	6GFM55-HD 12V55Ah	Page	Page 1 of 3
Fax	0794-7073333		Date	8/8/2017

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

Nominal Capacity (AH)

20 Hour rate F.V.(1.75V/cell) (2.9A to 10.5volts)58.0AH;

10 Hour rate F.V.(1.75V/cell) (5.51A to 10.5volts)55.1AH;

5 Hour rate F.V.(1.75V/cell) (9.86A to 10.5volts)49.3AH;

3 Hour rate F.V.(1.75V/cell) (14.5A to 10.5volts) 43.5AH;

1 Hour rate F.V.(1.75V/cell) (32.48A to 10.5volts) 32.48AH;

27 Min rate F.V.(1.6V/cell) (58.0A to 9.6volts) 26.10AH;

7 Min rate F.V.(1.6V/cell) (174A to 9.6volts) 20.3AH;

Approximate Weight18.0Kg;

TerminalL2 (M8 Bolt & nut Lead terminal);

Max. Discharge Current 77°F(25°C) 870A (5S) ;

Maximum Charge Current (A) 17.4A;



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Ambient Temperature

Charge0℃ (32°F) ~ 40℃ (104°F);

Discharge -20℃ (-4°F) ~ 50℃ (122°F);

Storage -20℃ (-4°F) ~ 40℃ (104°F);

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

CaseABS;

Dimension (mm/inch)

Length (±2mm) 232(9.13);

Width (±2mm) 138(5.43);

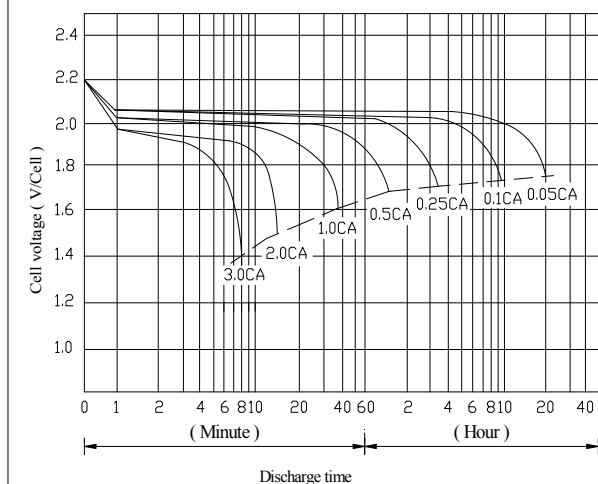
Container Height (±2mm) 210(8.27);

Total Height (±2mm) 231.5(9.12);

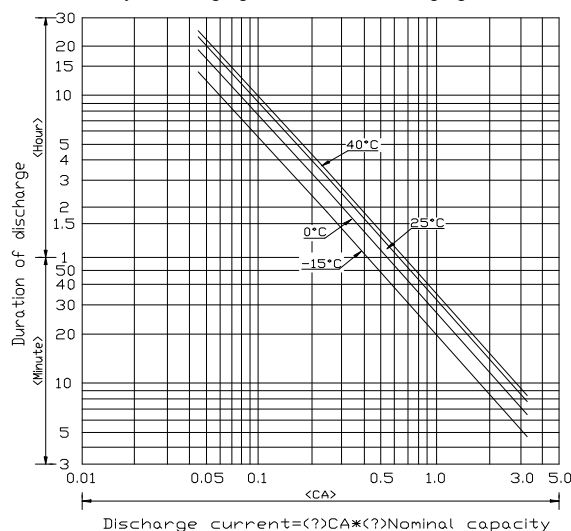
Application.....Solar, UPS, Laboratory Equipment, Toy-Cars, Power Packs, Fishing Lights.

Battery Characteristics Graph

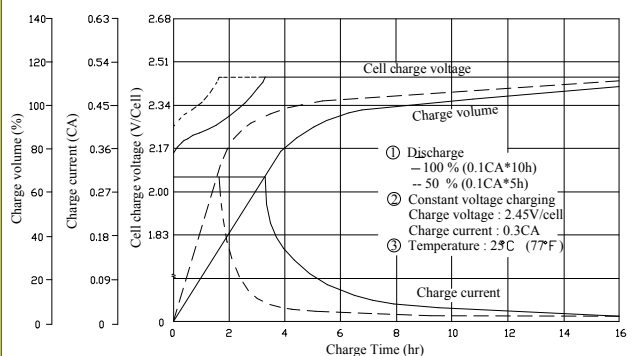
Battery discharge characteristics



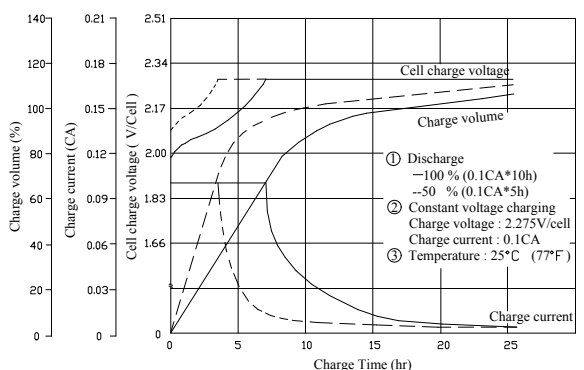
Battery Discharging Current VS Discharging Time



Battery Charging Characteristics For Cyclic Use



Battery Charging Characteristics for Standby Use





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Tel	0794-7073998	6GFM55-HD 12V55Ah	Page	Page 3 of 3
Fax	0794-7073333		Date	8/8/2017

Effect of temperature on capacity (10HR)

Temperature	Dependency of Capacity (10HR)
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°F)
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