

# 6-GFM-250G(12V250Ah)



## Introduction

GFM-G series gel battery, adopts high-current lead paste formula, high corrosion-resistant alloy material, nano-silica gel electrolyte, and special exhaust structure and sealing technology, which, on the one hand, has strong high-rate discharge capability, safe and reliable use, low self-discharge rate and over-discharge recovery capability. On the other hand, the materials and special technology also enhance high and low temperature resistance, and bring flexible and convenient installation as well as simple maintenance.

## Battery Features

- 12 years floating design life
- Excellent consistency
- High reliability
- Low self-discharge
- Good recovery from deep discharge

## Electrical Specification

Design floating Life @ 20°C (68°F)	.....	12 years
Nominal Capacity @ 25°C /77°F		
20 hour rate 13.0 A to 1.80Vpc	.....	260Ah
10 hour rate 25.0 A to 1.80Vpc	.....	250Ah
5 hour rate 43.6 A to 1.75Vpc	.....	218Ah
1 hour rate 161 A to 1.60Vpc	.....	161Ah
Internal Resistance		
(Fully charged battery @ 25°C /77°F)	.....	3.2 mΩ
Max. Discharge Current @ 25°C /77°F	.....	1200A (5S)
Charge Methods: Constant voltage charge @ 25°C /77°F		
Cycle Use	.....	14.4 ~ 15.0V
Max. Current	.....	75A
Standby Use	.....	13.5V - 13.8V
Operating Temperature Range		
Discharge	.....	-20 ~ 55°C
Charge	.....	0 ~ 40°C
Storage	.....	-20 ~ 55°C
Recommended Operating Temp	.....	20 ~ 25°C

### Self-Discharge

The capacity declines by 3% per month @ 20°C (68°F). The batteries can be stored up to 6 months @ 25°C (77°F) and then a freshening charge is required. The interval under higher temperature would be shorter.

## Typical Applications



UPS  
Telecom  
Electric system

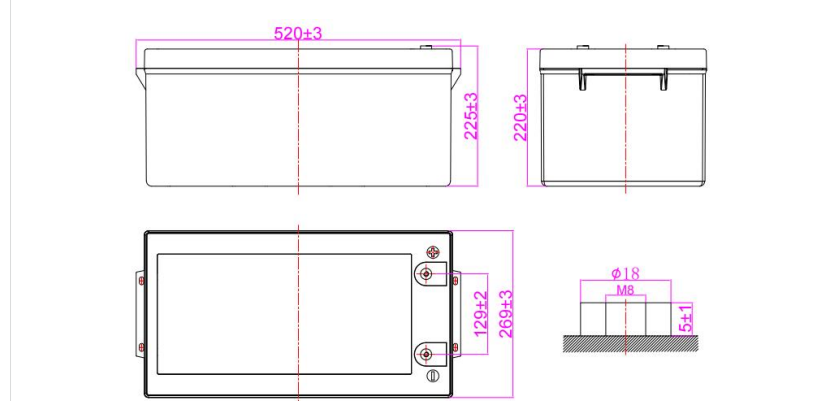
## Certificates



## Battery Picture



## Dimensions



## Dimension and Weight

Dimension				Weight (± 3%)	Terminal
Length	Width	Height	Total Height		
520 mm	269 mm	220 mm	225 mm	70.8kg	F6
20.5 inch	10.6 inch	8.66 inch	8.86 inch	156lbs	

## Constant Current Discharge\* (Amperes @25 /77°F)

V/cell	15min	30min	1hr	3hr	5hr	10hr	20hr
1.60V	554	294	161	62.5	44.5	25.6	13.2
1.65V	537	288	159	62.1	44.2	25.5	13.2
1.70V	515	279	155	61.4	43.9	25.3	13.2
1.75V	493	272	152	61.3	43.6	25.2	13.1
1.80V	465	262	147	59.4	42.3	25.0	13.0

## Constant Power Discharge\* (Watts/cell @25 /77°F)

V/cell	15min	30min	1hr	3hr	5hr	10hr	20hr
1.60V	5981	3296	1838	735	526	306	159
1.65V	5801	3230	1811	730	523	304	158
1.70V	5562	3131	1765	722	519	302	158
1.75V	5323	3055	1730	720	516	300	157
1.80V	5024	2943	1676	699	500	299	156

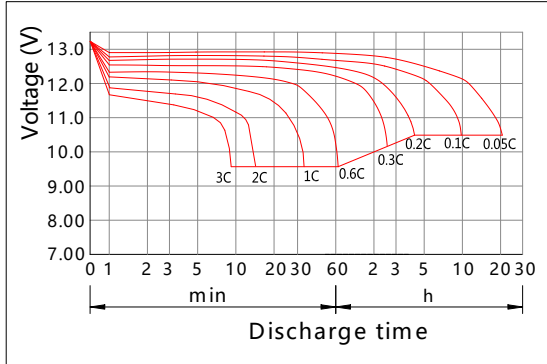
\*The mentioned data are derived from of sample test result, for reference only.

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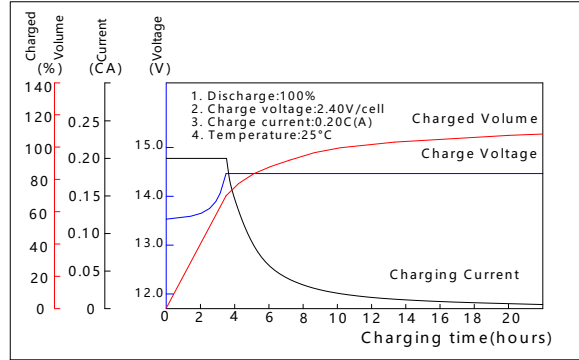


## Graphs

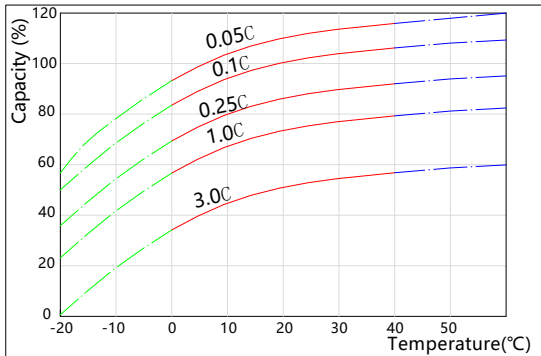
### Discharge Characteristics(25°C)



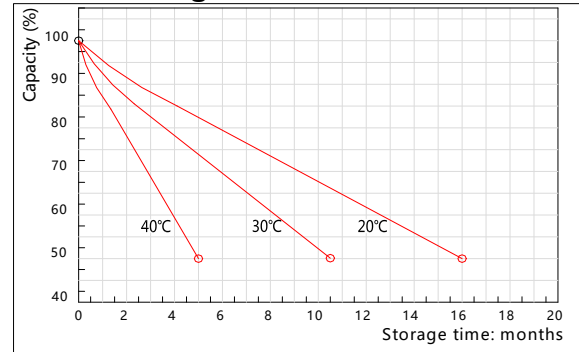
### Charging Characteristics(25°C)



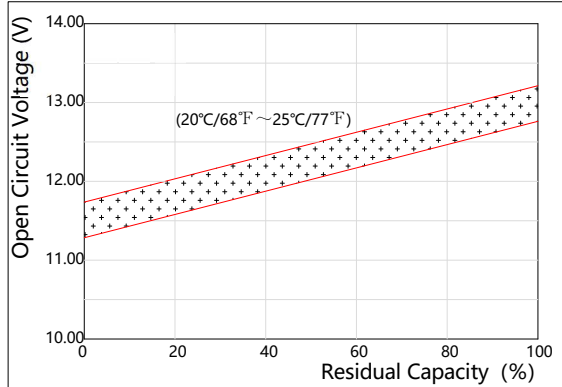
### Effect of Temperature on Capacity



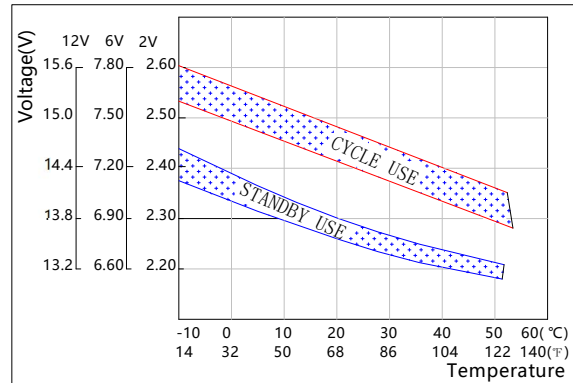
### Self-discharge Characteristics



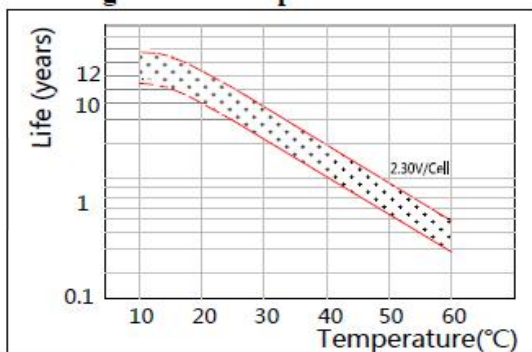
### The Relationship between Open Circuit Voltage and Residual Capacity (25°C)



### The Relationship between Charging Voltage and Temperature



### Floating Life on Temperature



### Cycle Life on D.O.D(25°C)

