

6-GFM-100(12V100Ah)



Introduction

GFM series are made of Lead paste suitable for big current discharging, special alloy of high corrosion resistance. They are disposed of unique designed discharging structure and sealing technology. GFM series are featured with high rate current discharge, high reliability, low self-discharge, flexible installation and easy 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 5.25 A to 1.80Vpc 105 Ah

10 hour rate 10.0 A to 1.80Vpc 100 Ah

5 hour rate 17.5 A to 1.75Vpc 87.5Ah

1 hour rate 65.0A to 1.60Vpc 65.0Ah

Internal Resistance

(Fully charged battery @ 25°C /77°F) 4.8 mΩ

Max. Discharge Current @ 25°C /77°F900A (5S)

Charge Methods: Constant voltage charge @ 25°C /77°F

Cycle Use 14.4 ~ 15.0V

Max. Current25A

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

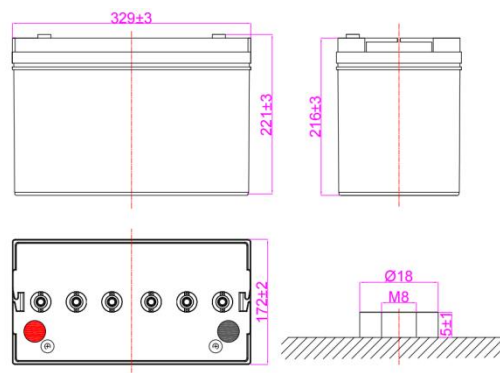
Self-Discharge

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.

Battery Picture



Dimensions



Dimension and Weight

Dimension				Weight	Terminal
Length	Width	Height	Total Height	(± 3%)	
329 mm	172 mm	216 mm	221 mm	29kg	F6
13.0inch	6.77 inch	8.50 inch	8.70 inch	63.9lbs	

Typical Applications



UPS
Telecom
Electric system

Certificates



System
Certified
Company

ISO 14001:2015
ISO 45001:2018
IATF 16949:2016

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

V/cell	15min	30min	1hr	3hr	5hr	10hr	20hr
1.60V	185	118	65.0	25.5	17.9	10.2	5.34
1.65V	181	116	64.0	25.4	17.7	10.2	5.33
1.70V	174	112	62.4	25.2	17.6	10.1	5.32
1.75V	168	109	61.2	25.0	17.5	10.1	5.29
1.80V	159	105	59.3	24.3	17.0	10.0	5.25

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

V/cell	15min	30min	1hr	3hr	5hr	10hr	20hr
1.60V	2031	1324	741	300	211	122	64.1
1.65V	1983	1297	730	298	210	121	64.0
1.70V	1909	1258	711	296	208	121	63.8
1.75V	1844	1227	697	294	207	120	63.4
1.80V	1747	1182	676	285	201	119	63.0

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

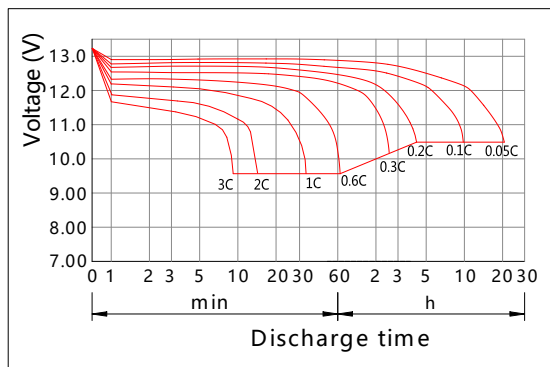


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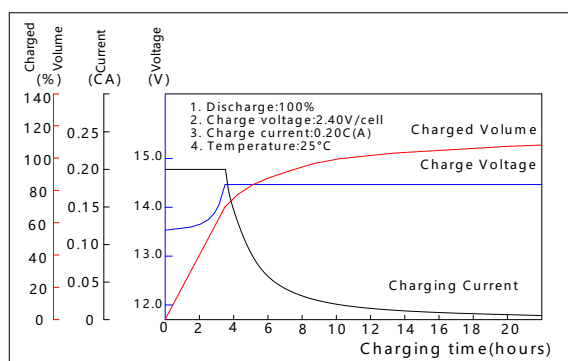


Graphs

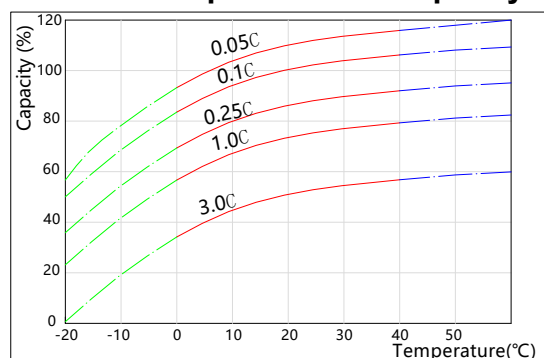
Discharge Characteristics(25°C)



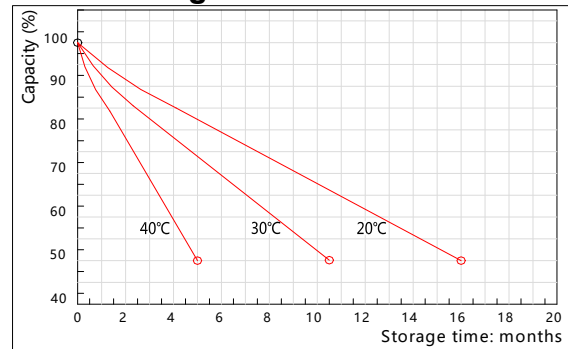
Charging Characteristics(25°C)



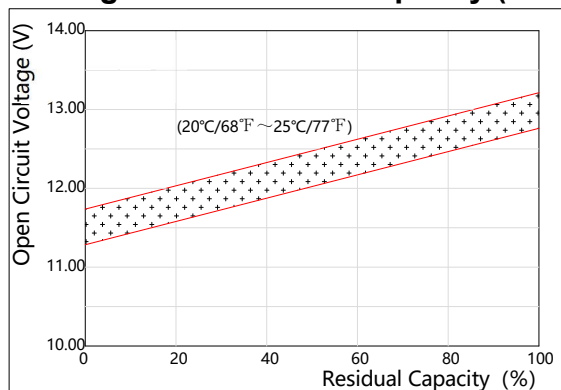
Effect of Temperature on Capacity



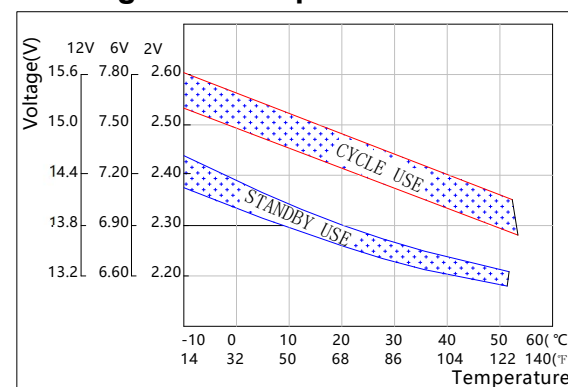
Self-discharge Characteristics



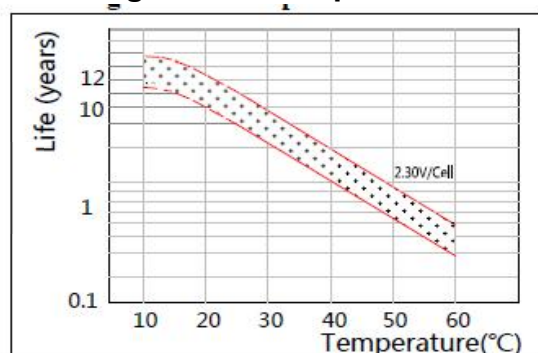
The Relationship between Open Circuit Voltage and Residual Capacity (25°C)



The Relationship between Charging Voltage and Temperature



Floating Life on Temperature



Cycle Life on D.O.D(25°C)

