6-GFM-250(12V250Ah)

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 disgassing 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 13.1 A to 1.80Vpc … .. …..… 262Ah

10 hour rate 25.0 A to 1.80Vpc …… ….. 250Ah

5 hour rate 43.8 A to 1.75Vpc …… ……. 219Ah

1 hour rate 163 A to 1.60Vpc ……..……163Ah

Internal Resistance

(Fully charged battery @ 25°C /77°F) ……. 3.5 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 ……..62.5A

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

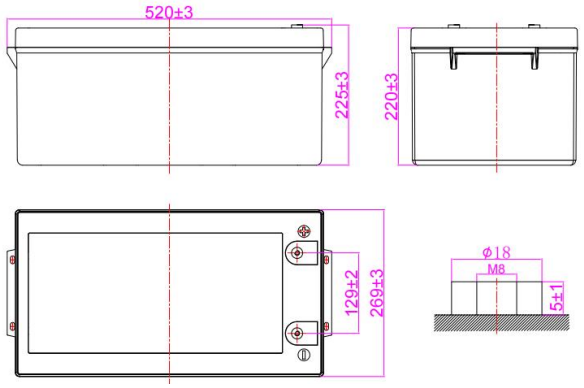
Electric system

Certificates

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

Battery Picture

Dimensions



Dimension and Weight

Dimension				Weight	Terminal
Length	Width	Height	Total Height	(± 3%)	
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	463	295	163	63.8	44.6	25.5	13.4
1.65V	451	289	160	63.4	44.4	25.4	13.3
1.70V	435	280	156	62.9	44.1	25.3	13.3
1.75V	420	273	153	62.5	43.8	25.2	13.2
1.80V	398	263	148	60.6	42.4	25.0	13.1

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

V/cell	15min	30min	1hr	3hr	5hr	10hr	20hr
1.60V	5078	3310	1853	750	527	304	160
1.65V	4956	3244	1825	745	524	303	160
1.70V	4774	3144	1778	740	521	302	160
1.75V	4611	3068	1743	735	517	301	159
1.80V	4367	2956	1689	713	502	299	158

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

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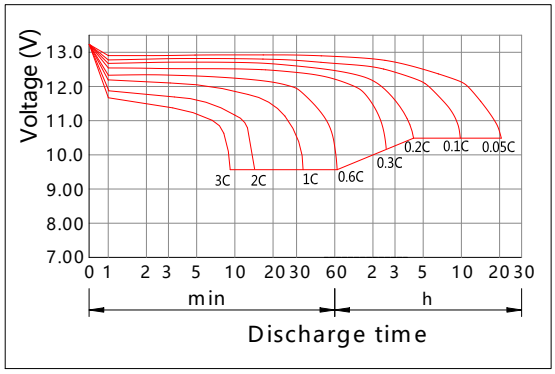
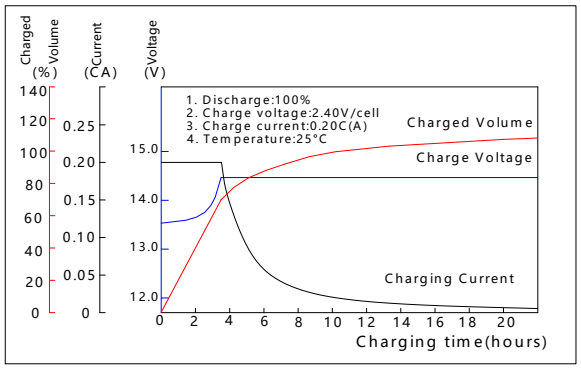
Graphs

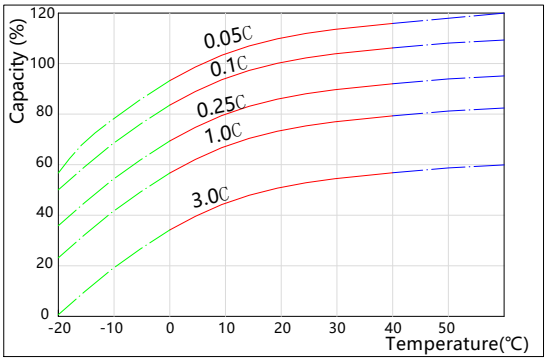
Discharge Characteristics(25℃)



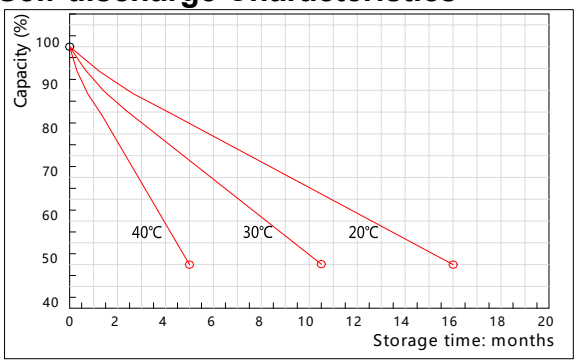
Charging Characteristics(25℃)



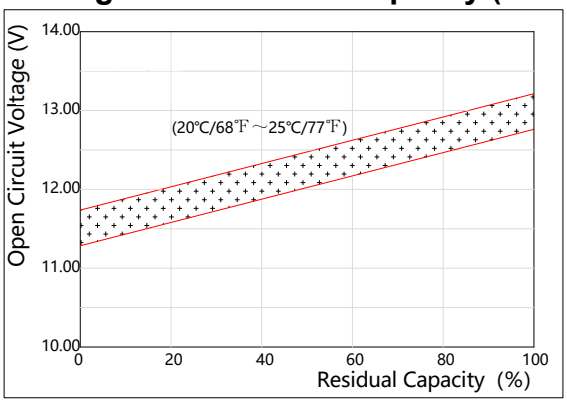
Effect of Temperature on Capacity



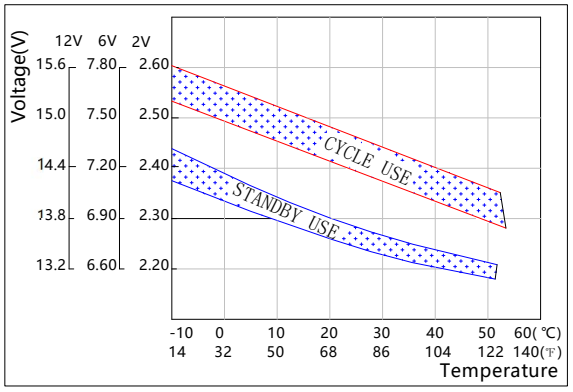
Self-discharge Characteristics



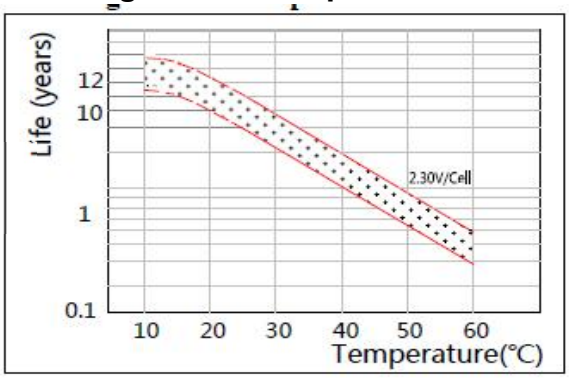
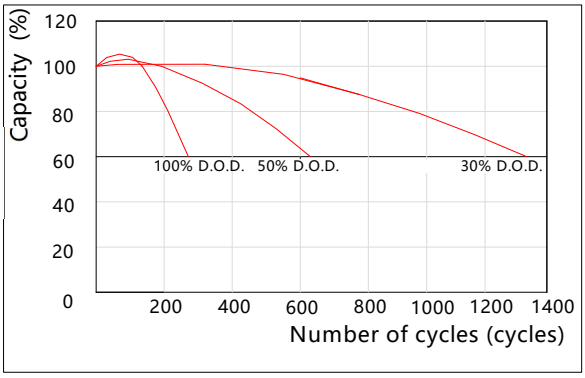
The Relationship between Open Circuit Voltage and Residual Capacity (25℃)



The Relationship between Charging Voltage and Temperature



Floating Life on Temperature



Cycle Life on D.O.D(25℃)