

6-GFM-200(12V200Ah)



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 10.5 A to 10.8V 210Ah

10 hour rate 20.0 A to 10.8V 200Ah

5 hour rate 34.5A to 10.5V 172.5Ah

1 hour rate 123A to 9.6 V 123Ah

Internal Resistance

(Fully charged battery @ 25°C /77°F) 2.5 mΩ

Max. Discharge Current @ 25°C /77°F 1000A (5S)

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

Cycle Use 14.4 ~ 14.70V

Max. Current 60A

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

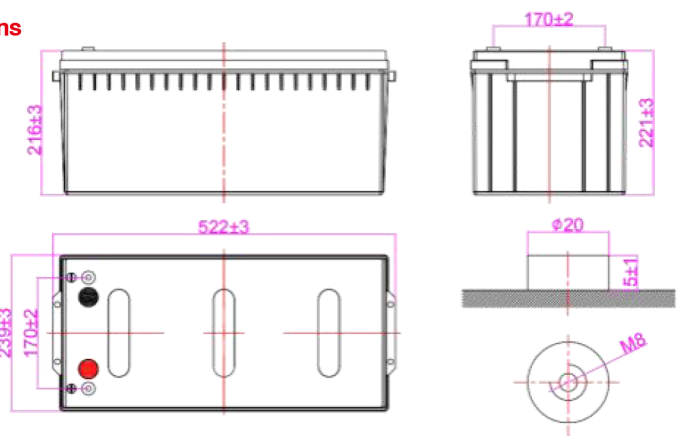
Self-Discharge

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 (± 3%)	Terminal
Length	Width	Height	Total Height		
522 mm	239 mm	216 mm	221 mm	58.5kg	Φ20*M8
20.6 inch	9.41 inch	8.50 inch	8.70 inch	128.9lbs	

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)

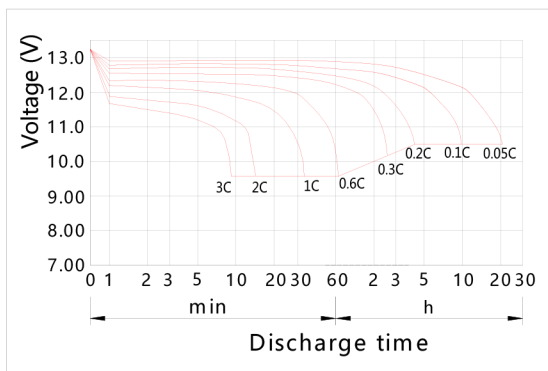
Time	5min	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
9.60V	529	436	346	238	123	85.3	59.6	45.8	37.4	25.1	21.2	11.0
10.20V	468	397	327	225	118	82.0	57.3	44.0	36.0	24.3	20.6	10.8
10.50V	440	373	294	216	115	78.7	55.0	42.2	34.5	24.0	20.3	10.6
10.80V	407	345	273	202	112	75.4	52.7	40.5	33.1	23.5	20.0	10.5
11.10V	369	313	252	182	105	68.1	48.1	37.4	31.0	22.0	18.8	9.98

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

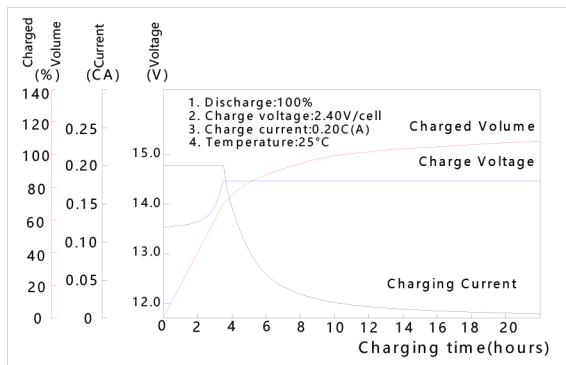
Time	5min	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
9.60V	5821	4520	3790	2665	1402	964	673	517	428	295	249	130
10.20V	5414	4367	3580	2587	1324	943	659	506	418	286	242	127
10.50V	5181	4177	3138	2445	1285	913	638	489	409	283	240	126
10.80V	4890	3933	2905	2353	1247	882	616	474	400	277	236	125
11.10V	4424	3630	2685	2147	1175	803	567	441	373	261	223	119

Graphs

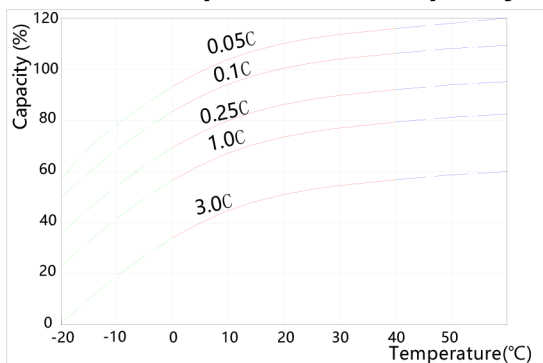
Discharge Characteristics(25°C)



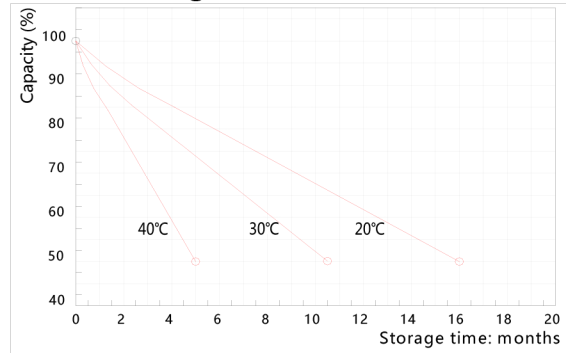
Charging Characteristics(25°C)



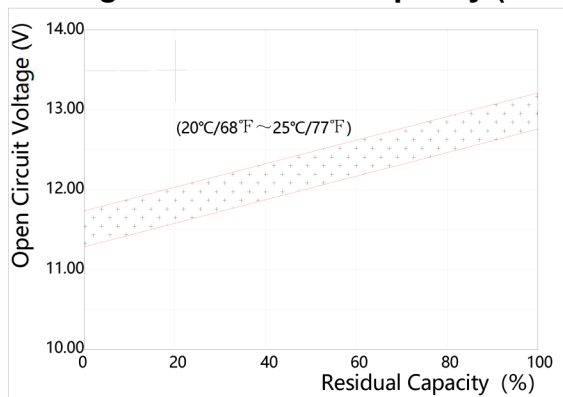
Effect of Temperature on Capacity



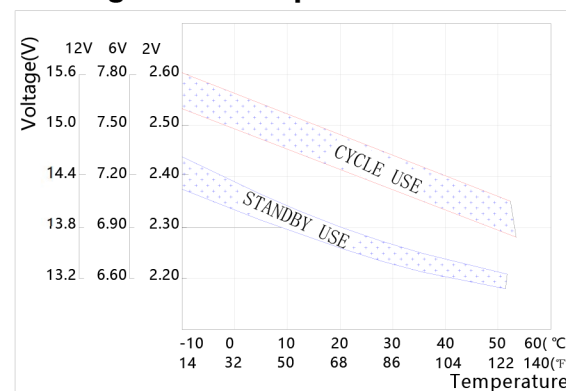
Self-discharge Characteristics



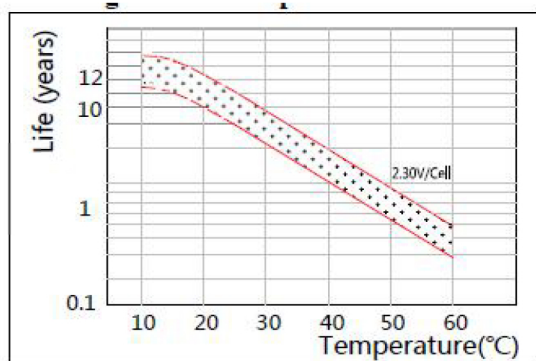
The Relationship between Open Circuit Voltage and Residual Capacity (25°C)



The Relationship between Charging Voltage and Temperature



Floating Life on Temperature



Cycle Life on D.O.D(25°C)

