

6-GFM-65(12V65Ah)



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 3.41 A to 1.80Vpc 68.2 Ah

10 hour rate 6.5 A to 1.80Vpc 65.0Ah

5 hour rate 11.38 A to 1.75Vpc 56.9 Ah

1 hour rate 42.3 A to 1.60Vpc 42.3Ah

Internal Resistance

(Fully charged battery @ 25°C /77°F) 6.0 mΩ

Max. Discharge Current @ 25°C /77°F 650A (5S)

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

Cycle Use 14.4 ~ 15.0V

Max. Current 16.3A

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

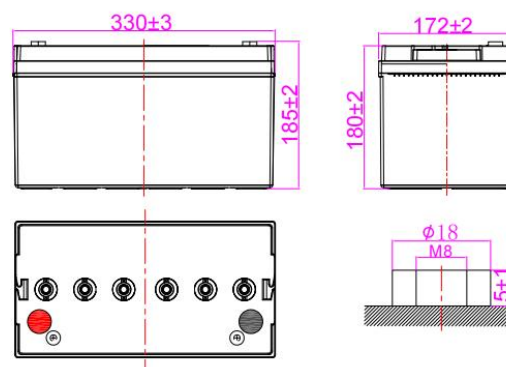
Self-Discharge

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%)	
330 mm	172 mm	180 mm	185 mm	19.9kg	F6
13.0inch	6.77 inch	7.09 inch	7.28 inch	43.9lbs	

Typical Applications



UPS
Telecom
Electric system

Certificates



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	120	76.7	42.3	16.6	11.60	6.62	3.47
1.65V	117	75.2	41.6	16.5	11.53	6.60	3.47
1.70V	113	72.9	40.6	16.4	11.45	6.58	3.46
1.75V	109	71.1	39.8	16.3	11.38	6.55	3.44
1.80V	103	68.5	38.5	15.8	11.03	6.50	3.41

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

V/cell	15min	30min	1hr	3hr	5hr	10hr	20hr
1.60V	1320	861	482	195	137	79.0	41.7
1.65V	1289	843	474	194	136	78.9	41.6
1.70V	1241	818	462	192	135	78.6	41.5
1.75V	1199	798	453	191	134	78.2	41.2
1.80V	1135	768	439	185	130	77.6	41.0

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

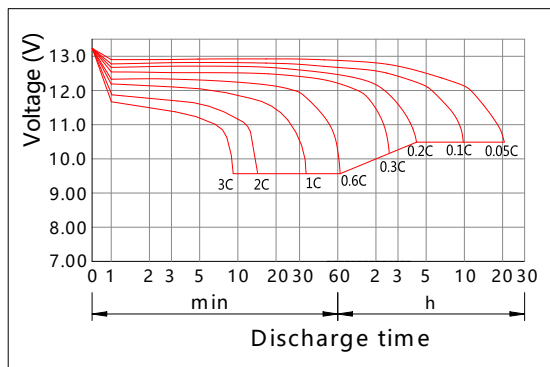


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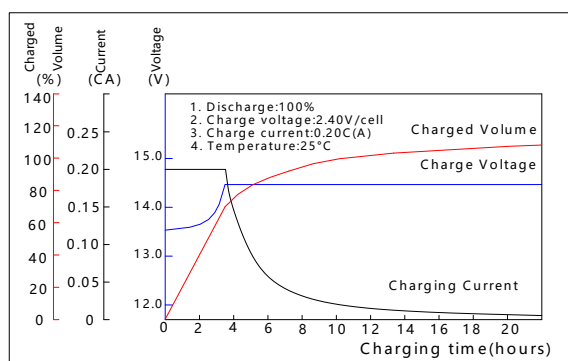


Graphs

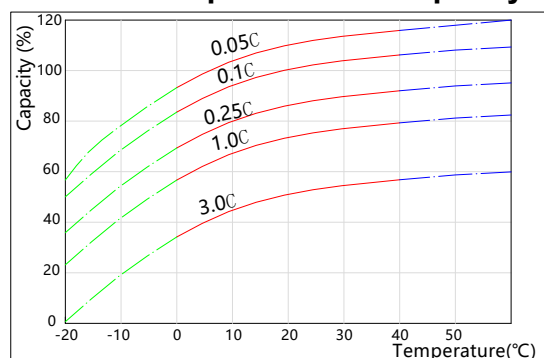
Discharge Characteristics(25°C)



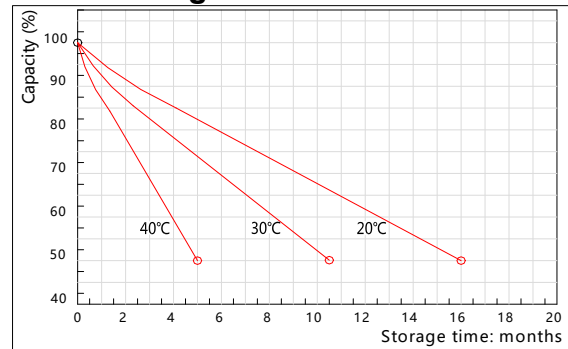
Charging Characteristics(25°C)



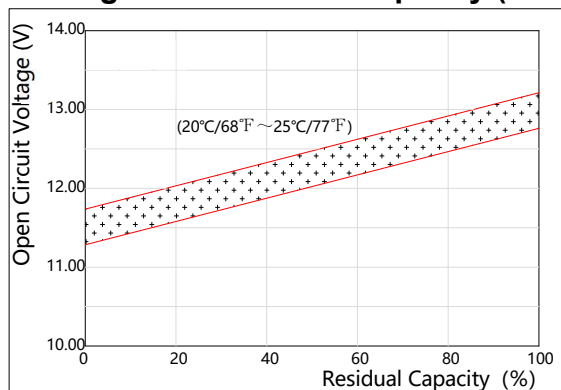
Effect of Temperature on Capacity



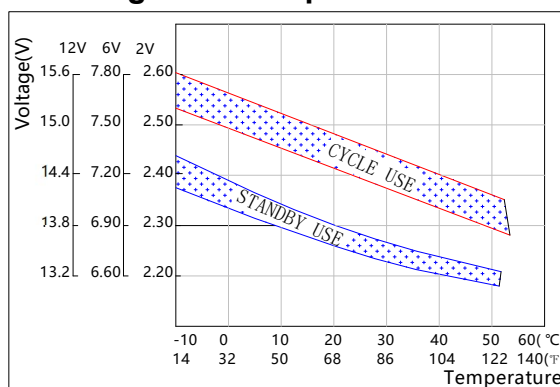
Self-discharge Characteristics



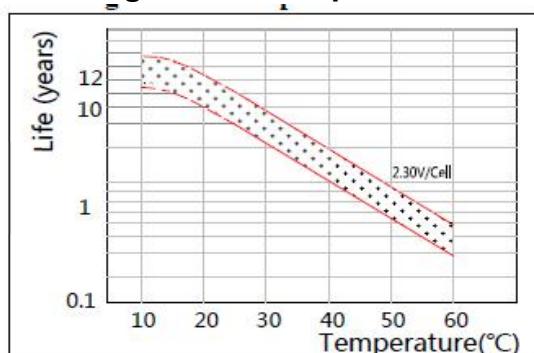
The Relationship between Open Circuit Voltage and Residual Capacity (25°C)



The Relationship between Charging Voltage and Temperature



Floating Life on Temperature



Cycle Life on D.O.D(25°C)

