

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 5.30 A to 10.8V 106 Ah

10 hour rate 10.0 A to 10.8V 100 Ah

5 hour rate 17.4 A to 10.5V 87Ah

1 hour rate 64.1A to 9.6V 64.1Ah

Internal Resistance

(Fully charged battery @ 25°C /77°F)5.5 mΩ

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

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

Cycle Use 14.4 ~ 14.7V

Max. Current30A

Standby Use 13.5V - 13.8V

Operating Temperature Range

Discharge -20 ~ 55°C

Charge 0 ~ 40°C

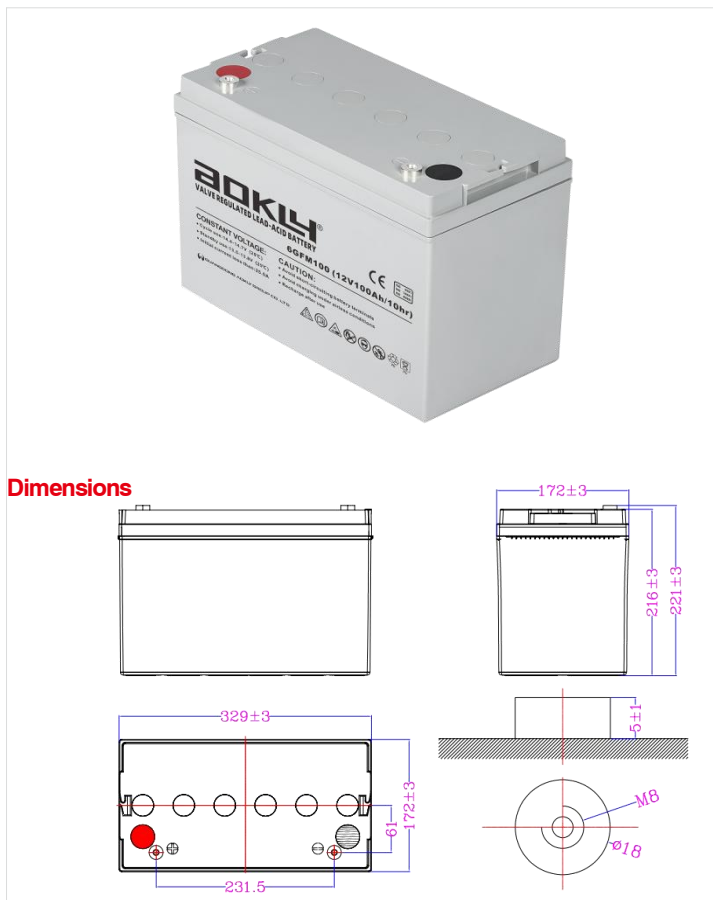
Storage -20 ~ 55°C

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	Φ18*M8
13.0inch	6.77 inch	8.50 inch	8.70 inch	63.9lbs	

Typical Applications



UPS
Telecom
Electric system

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

Time	5min	10min	15min	30min	1h	1.5h	2h	2.5h	3h	4h	5h	6h	8h	10h	20h
9.60V	260	223	188	107	64.1	48.3	37.5	33.0	29.8	22.9	18.5	14.7	12.5	10.6	5.56
10.20V	240	203	174	104	63.0	47.5	36.9	32.1	28.7	22.0	17.8	14.2	12.1	10.3	5.43
10.50V	225	191	165	98.9	60.4	45.8	36.1	31.5	28.1	21.6	17.4	13.9	11.9	10.2	5.35
10.80V	209	177	155	94.8	58.6	44.3	34.7	29.9	26.4	20.2	17.0	13.6	11.7	10.0	5.30
11.10V	189	160	139	91.1	55.4	42.1	33.3	28.0	23.8	18.5	15.8	12.7	10.9	9.40	5.03

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

Time	5min	10min	15min	30min	1h	1.5h	2h	2.5h	3h	4h	5h	6h	8h	10h	20h
9.60V	2830	2231	1895	1270	741	555	428	355	320	259	209	169	147	124	65.6
10.20V	2608	2107	1790	1190	716	540	420	347	310	253	205	162	142	121	65.1
10.50V	2454	1878	1569	1168	702	531	415	342	306	250	202	159	140	120	63.4
10.80V	2274	1770	1458	1116	639	498	410	337	300	236	199	155	138	118	63.1
11.10V	2055	1661	1336	1063	580	460	388	318	281	220	187	145	129	111	60.1

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

Certificates

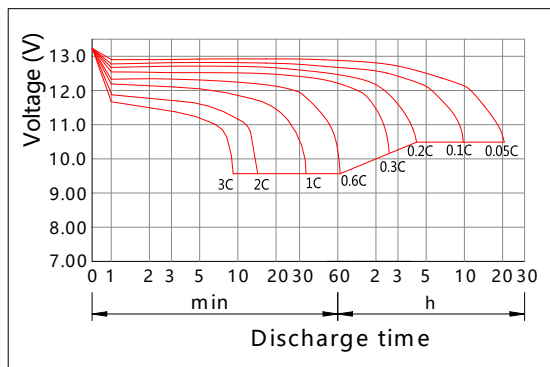


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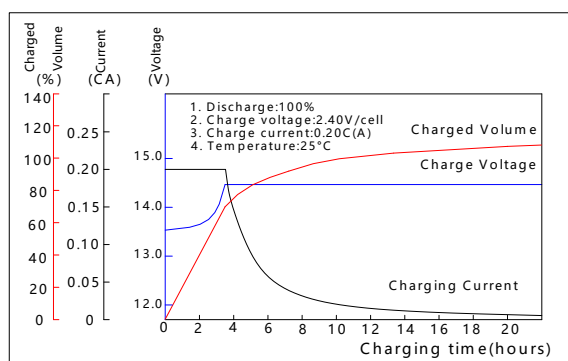


Graphs

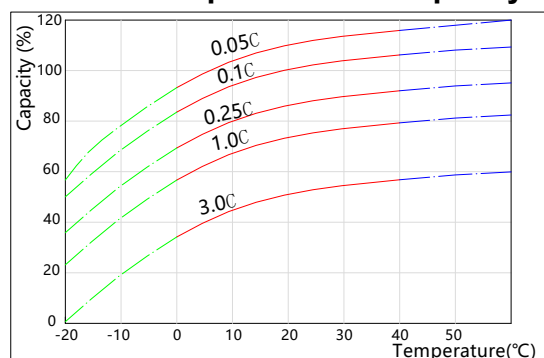
Discharge Characteristics(25°C)



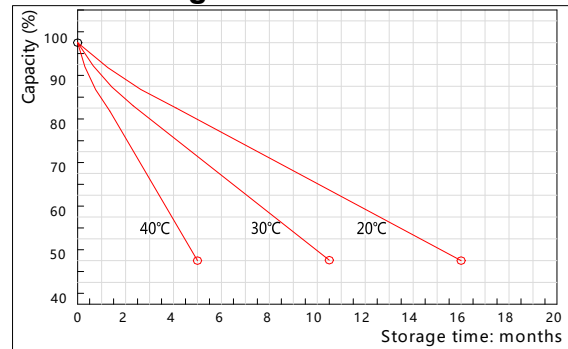
Charging Characteristics(25°C)



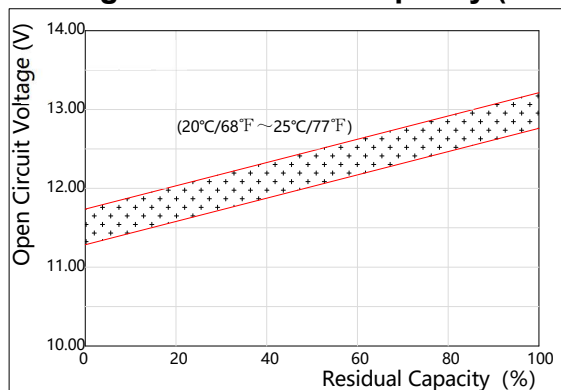
Effect of Temperature on Capacity



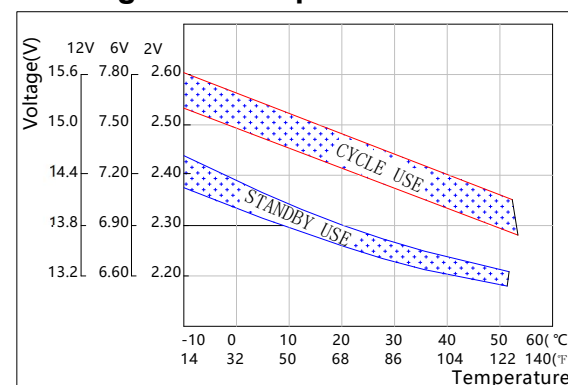
Self-discharge Characteristics



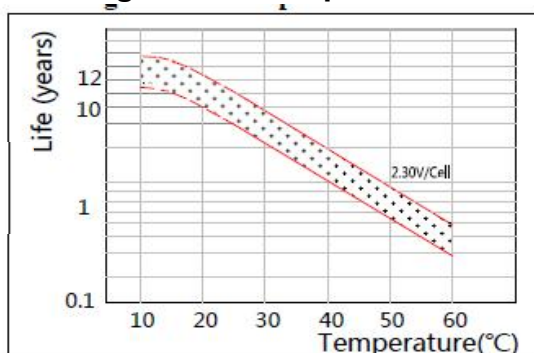
The Relationship between Open Circuit Voltage and Residual Capacity (25°C)



The Relationship between Charging Voltage and Temperature



Floating Life on Temperature



Cycle Life on D.O.D(25°C)

