

6-GFM-100(12V100Ah)

LIVOLTEK

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 dis gassing 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 5.00 A to 10.8V	100 Ah
10hourrate 9.11Ato 10.8V	91.1Ah
5 hour rate 15.6 A to 10.5V	78.0Ah
1 hour rate 55.0 A to 9.60V	55.0Ah
Internal Resistance	
(Fully charged battery @ 25°C /77°F)	6.0 mΩ
Max. Discharge Current @ 25°C /77°F.....	828A (5S)
Charge Methods: Constant voltage charge @ 25°C /77°F	
Cycle Use.....	~ 14.7V
Max. Current.....	30A
Standby Use	V - 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

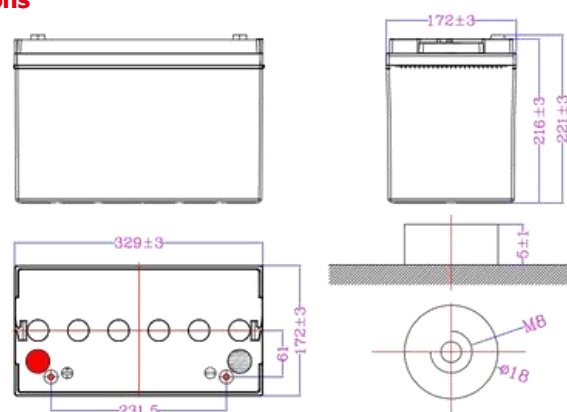


UPS
Tele c om
Electric system

Battery Picture



Dimensions



Dimension and Weight

Dimension				W ei	Terminal
Length	Width	Height	Total Height	ght (±	
329 mm	172mm	216mm	221 mm	3%)	Φ1 8*M8
13.0inch	6.77inch	8.50inch	8.70 inch	28.0kg	
61.7lb					

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

Time	10min	30min	1h	3h	5h	10h	20h
9.60V	181	101	55.0	24.9	16.8	9.89	5.25
10.20V	173	99.5	51.1	23.1	15.9	9.45	5.12
10.50V	154	93.1	49.1	22.8	15.6	9.31	5.10
10.80V	146	85.9	47.8	22.1	13.9	9.11	5.00
11.10V	136	76.1	45.1	21.0	13.3	8.82	4.85

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

Time	10min	30min	1h	3h	5h	10h	20h
9.60V	2028	1177	614	279	191	116	63.1
10.20V	1915	1112	580	264	180	110	59.6
10.50V	1707	1043	565	258	177	108	58.9
10.80V	1609	962	545	253	158	106	58.2
11.10V	1510	859	514	243	151	103	57.9

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

Certificates

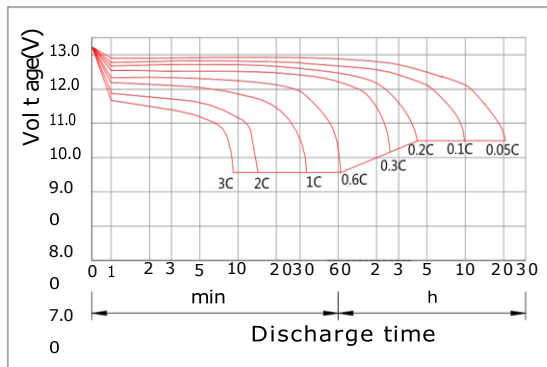


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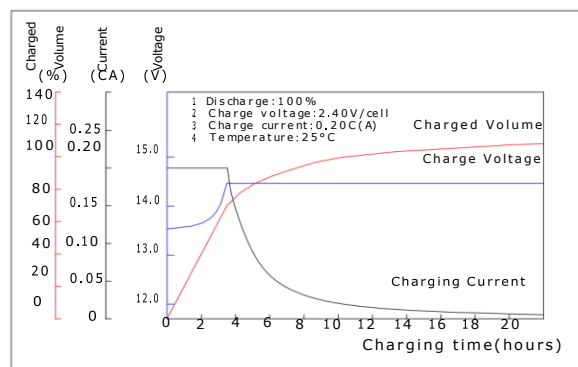
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Graphs

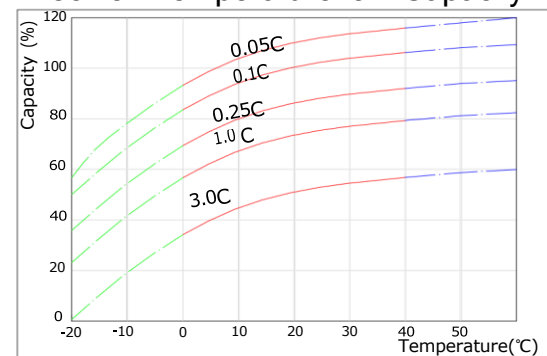
Discharge Characteristics(25 °C)



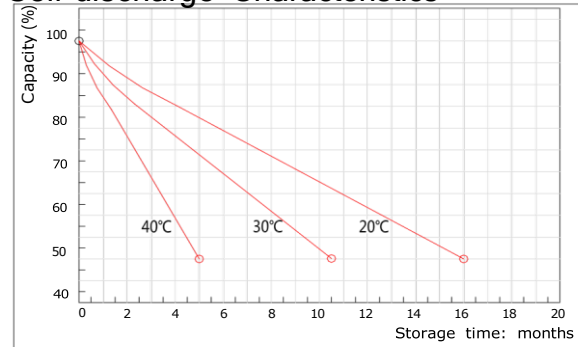
Charging Characteristics(25 °C)



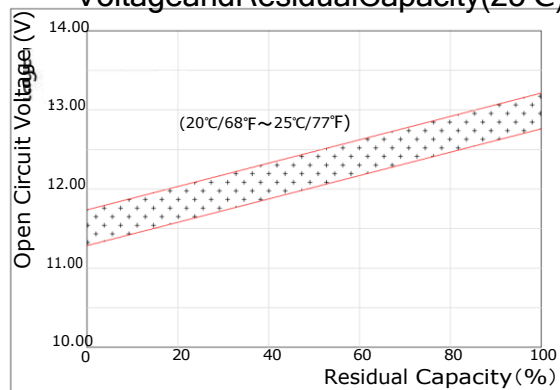
Effect of Temperature on Capacity



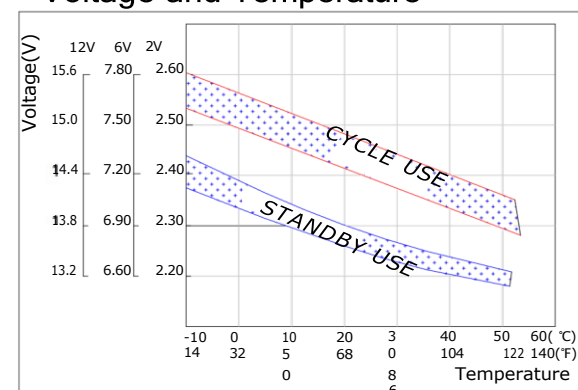
Self-discharge Characteristics



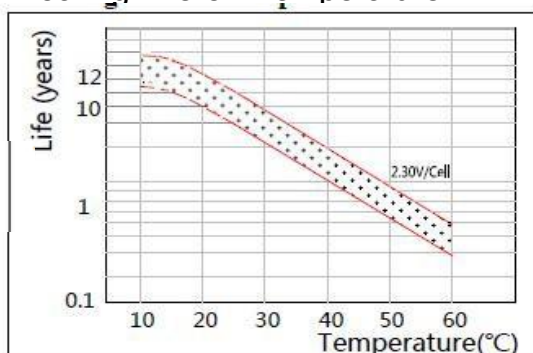
The Relationship between Open Circuit Voltage and Residual Capacity(25 °C)



The Relationship between Charging Voltage and Temperature



Floating Life on Temperature



Cycle Life on D.O.D(25 °C)

