6-GFM-300G(12V300Ah/C100)

AOKLY

Introduction

GFM-G series gel battery,adopts high-current lead paste formula,high corrosion-resistant alloy material,nano-silica gel electrolyte,and special exhaust structure and sealing technology,which,on the one hand,has strong high-rate discharge capability,safe and reliable use,low self-discharge rate and over-discharge recovery capability.On the other hand,the materials and special technology also enhance high and low temperature resistance,and bring flexible and convenient installation as well as simple maintenance.

Battery Features

- 12 years floating designlife
- 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

100 hour rate 3 A to 10.8V … 300Ah

10 hour rate 25 A to 10.8V ……..... ….. 250Ah

5 hour rate 44.1 A to 10.5V ……..... ……220.5Ah

1 hour rate 148 A to 9.6 V ……..... 148Ah

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 ……..75A

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

Electricsystem

Certificates

TLC CE Pb

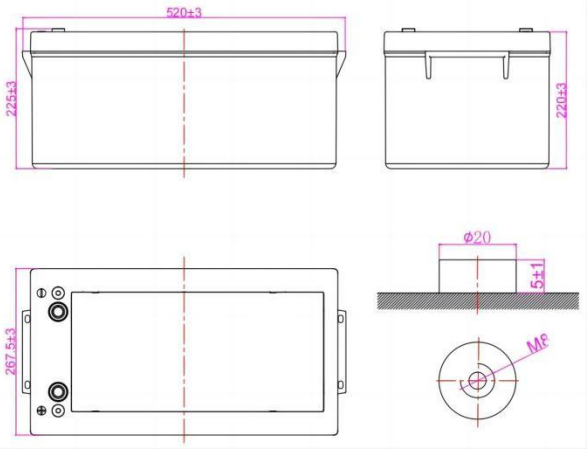
CQC

System Certified Company

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

Battery Picture





Dimension andWeight

Dimension				Weight	Terminal
Length	Width	Height	Total Height	(± 3%)	
520 mm	267.5 mm	220 mm	225 mm	69.8kg	F7
20.5 inch	10.5 inch	8.66 inch	8.86 inch	153.8lbs	

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

Time	15min	30min	1h	3h	5h	10h	20h
9.60V	405	247	148	65.9	46.9	26.5	13.9
10.20V	375	233	142	64.0	45.1	25.7	13.5
10.50V	356	223	136	62.1	44.1	25.4	13.3
10.80V	334	210	129	60.8	43.0	25.0	13.2
11.10V	300	189	116	56.3	40.0	23.5	12.5

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

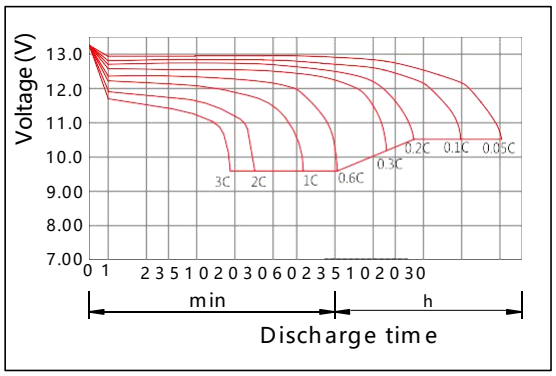
Time	15min	30min	1h	3h	5h	10h	20h
9.60V	4455	2766	1672	744	537	303	161
10.20V	4300	2680	1633	736	521	297	159
10.50V	4094	2575	1577	720	511	294	157
10.80V	3869	2446	1509	711	503	291	155
11.10V	3510	2230	1369	664	474	278	150

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

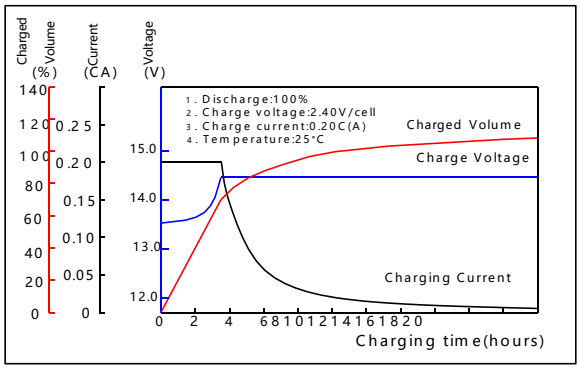
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Graphs

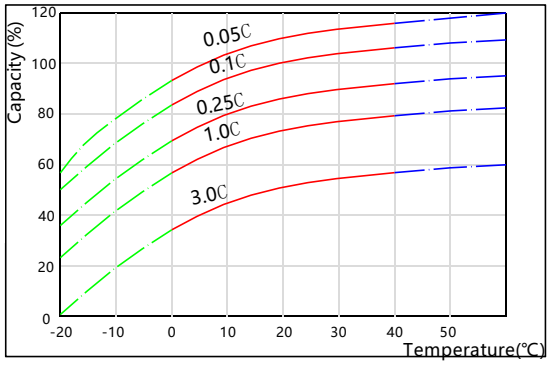
Discharge Characteristics(25℃)



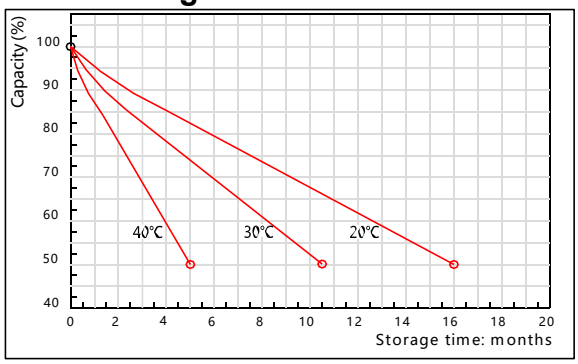
Charging Characteristics(25℃)



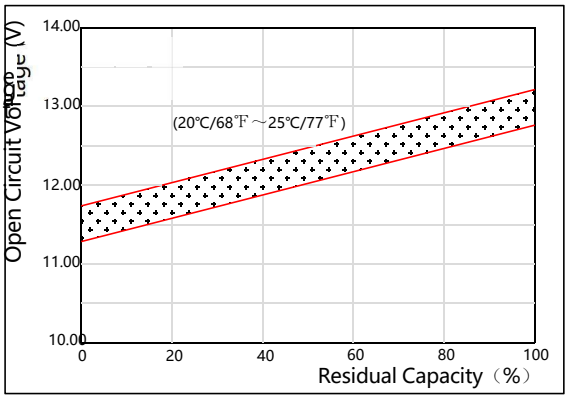
Effect of Temperature on Capacity



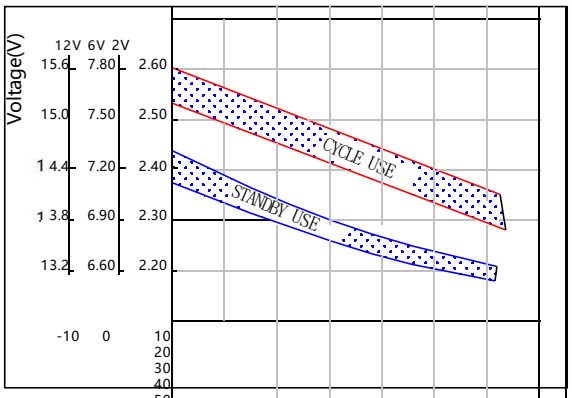
Self-discharge Characteristics



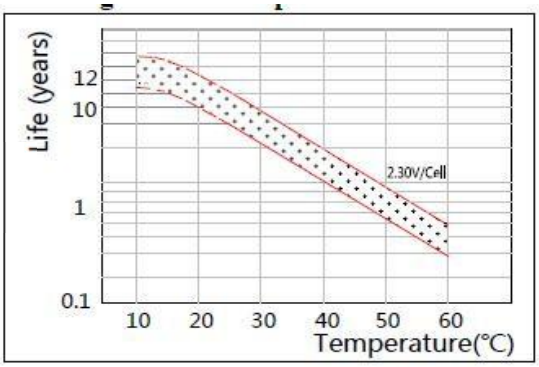
The Relationship between Open Circuit Voltage and Residual Capacity (25℃)



The Relationship between Charging Voltage and Temperature



Floating Life on Temperature



Cycle Life on D.O.D(25℃)

