

6-GFM-100F(12V100Ah)



Introduction

Aokly Battery Front Terminal series are designed for 15 years life in floating service. They are featured with high consistency, long service life and excellent recovery from deep discharge. The Front Terminal series batteries are widely used in Telecom, UPS, electrical instrument, medical equipment, solar and wind energy etc.

Battery Features

- 15 years floating design life
- Excellent consistency
- High reliability
- Low self-discharge
- Good recovery from deep discharge

Electrical Specification

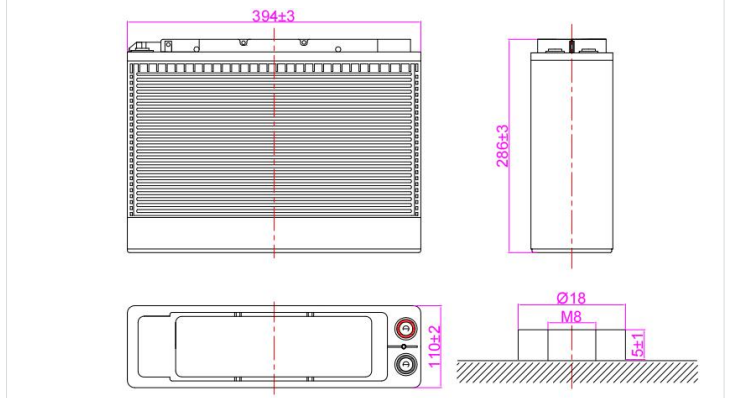
Design floating Life @ 20°C (68°F)	..... 15 years
Nominal Capacity @ 25°C /77°F	
20 hour rate 5.25 A to 1.80Vpc	..... 105 Ah
10 hour rate 10.0 A to 1.80Vpc	..... 100 Ah
5 hour rate 17.5 A to 1.75Vpc	..... 87.5Ah
1 hour rate 65.0A to 1.60Vpc	..... 65.0Ah
Internal Resistance	
(Fully charged battery @ 25°C /77°F)	..... 5.0 mΩ
Max. Discharge Current @ 25°C /77°F	.....900A (5S)
Charge Methods: Constant voltage charge @ 25°C /77°F	
Cycle Use	..... 14.4 ~ 15.0V
Max. Current	.....30A
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		
394 mm	110 mm	286 mm	286 mm	30.5kg	F6
15.5 inch	4.33 inch	11.3 inch	11.3 inch	67.2 lbs	

Typical Applications



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

V/cell	15min	30min	1hr	3hr	5hr	10hr	20hr
1.60V	185	118	65.0	25.5	17.9	10.2	5.34
1.65V	181	116	64.0	25.4	17.7	10.2	5.33
1.70V	174	112	62.4	25.2	17.6	10.1	5.32
1.75V	168	109	61.2	25.0	17.5	10.1	5.29
1.80V	159	105	59.3	24.3	17.0	10.0	5.25

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

V/cell	15min	30min	1hr	3hr	5hr	10hr	20hr
1.60V	2031	1324	741	300	211	122	64.1
1.65V	1983	1297	730	298	210	121	64.0
1.70V	1909	1258	711	296	208	121	63.8
1.75V	1844	1227	697	294	207	120	63.4
1.80V	1747	1182	676	285	201	119	63.0

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

Certificates

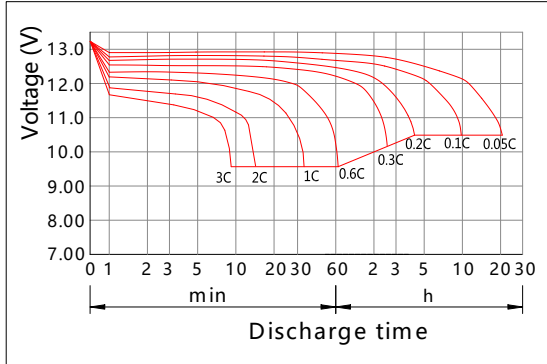


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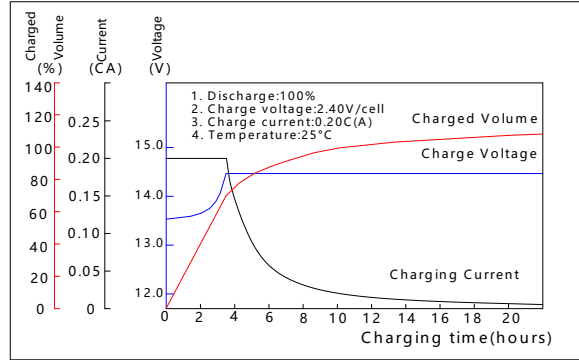


Graphs

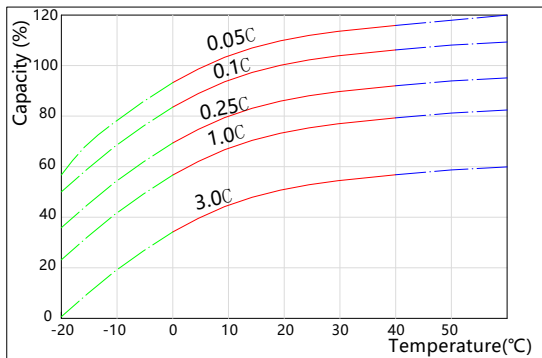
Discharge Characteristics(25°C)



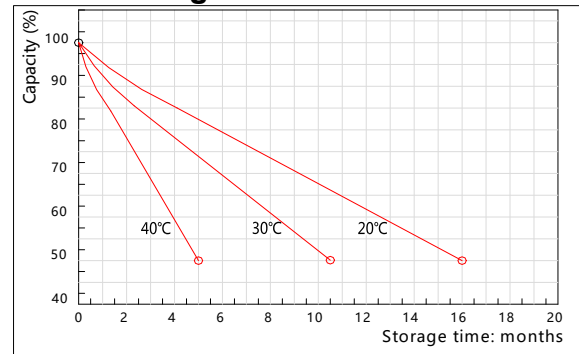
Charging Characteristics(25°C)



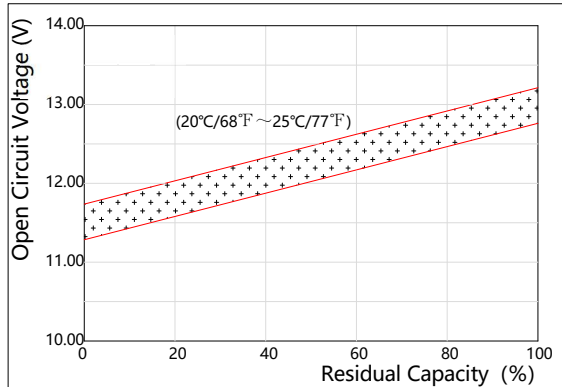
Effect of Temperature on Capacity



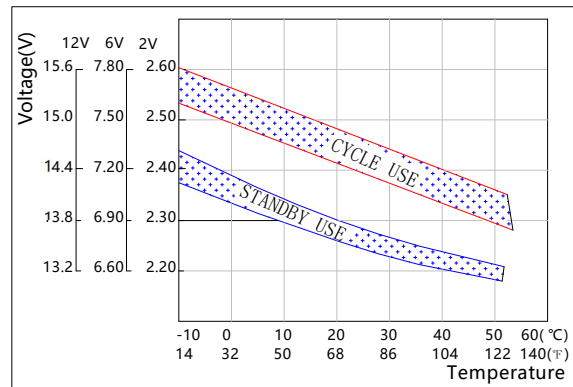
Self-discharge Characteristics



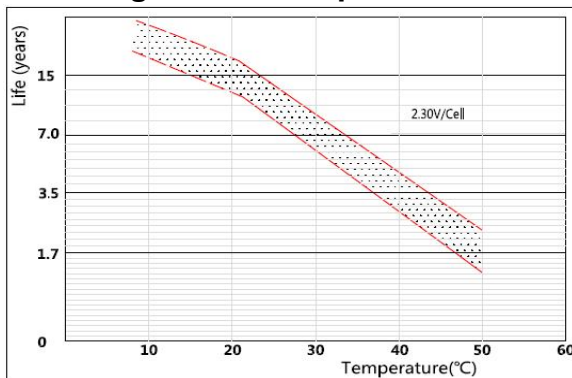
The Relationship between Open Circuit Voltage and Residual Capacity (25°C)



The Relationship between Charging Voltage and Temperature



Floating Life on Temperature



Cycle Life on D.O.D(25°C)

