

6FM18(12V18Ah)



Introduction

Aokly Battery (1.2Ah-28Ah) series are designed for 3~5 years life in floating service. The FM series batteries are featured with high consistency, excellent performance and reliable long service life. They are widely applied in medical equipment, emergency light and security system.

Battery Features

- Outstanding consistency in Standby system
- Stable quality and high pass rate
- Low self-discharge rate

Electrical Specification

Nominal Capacity @ 25°C /77°F

20 hour rate	0.90 A to 1.75Vpc	18Ah
10 hour rate	1.67 A to 1.75Vpc	16.7Ah
5 hour rate	3.06 A to 1.75Vpc	15.3Ah
1 hour rate	11.55 A to 1.70Vpc	11.55Ah

Internal Resistance

(Fully charged battery @ 25°C /77°F) 13mΩ

Max. Discharge Current @ 25°C /77°F 180A (5S)

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

Cycle Use 14.4 ~ 14.7V

Max. Current 5.4A

Standby Use 13.5 ~ 13.8V

Operating Temperature Range

Discharge -20 ~ 55°C

Charge 0 ~ 40°C

Storage -25~ 45°C

Recommended Operating Temp 20 ~ 25°C

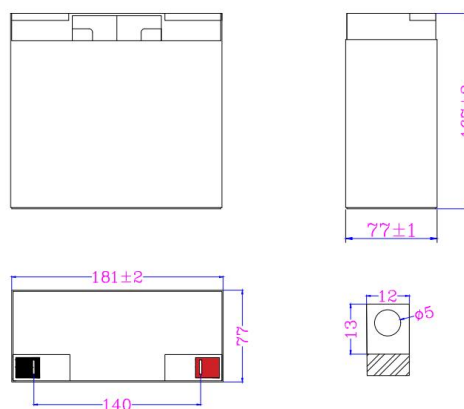
Self-Discharge

3% of capacity declined per month@ 20°C (68°F). The batteries may be stored for up to 6 months @ 25°C (77°F) and then a freshening charge is required. For higher temperatures the time interval will be shorter.

Battery Picture



Dimensions



Dimension and Weight

Dimension				Weight	Terminal
Length	Width	Height	Total Height	(± 3%)	
181 mm	77 mm	167mm	167 mm	5.0 kg	F3
7.13inch	3.03inch	6.57inch	6.57 inch	11.02lbs	

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

V/cell	15min	30min	1hr	3hr	5hr	10hr	20hr
1.60V	32.40	20.31	11.55	4.68	3.16	1.71	0.93
1.70V	30.41	19.52	11.15	4.60	3.11	1.69	0.92
1.75V	29.03	19.06	10.80	4.52	3.06	1.67	0.90
1.80V	27.16	18.53	10.48	4.43	3.00	1.65	0.88
1.85V	25.48	18.03	10.02	4.36	2.96	1.63	0.86

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

V/cell	15min	30min	1hr	3hr	5hr	10hr	20hr
1.60V	345.06	219.35	125.89	51.48	35.56	19.75	10.75
1.70V	323.86	210.82	121.54	50.60	35.29	19.52	10.63
1.75V	309.17	205.85	118.30	49.95	34.73	19.29	10.39
1.80V	293.33	203.83	116.33	49.12	34.05	19.06	10.16
1.85V	285.38	199.95	112.22	48.83	33.60	18.83	9.93

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

Typical Applications



UPS
Telecom
Electric system

Ertificates



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Graphs

