

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 0.9 A to 1.75Vpc	18Ah
10 hour rate 1.6 A to 1.75Vpc	16Ah
5 hour rate 2.89 A to 1.75Vpc	14.45Ah
1 hour rate 10.2 A to 1.70Vpc	10.2Ah

Internal Resistance

(Fully charged battery @ 25°C /77°F) 14mΩ

Max. Discharge Current @ 25°C /77°F 170A (5S)

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

Cycle Use 14.4 ~ 14.7V

Max. Current 5.1A

Standby Use 13.5 ~ 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

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.

Typical Applications



UPS
Telecom
Electric system

Certificates

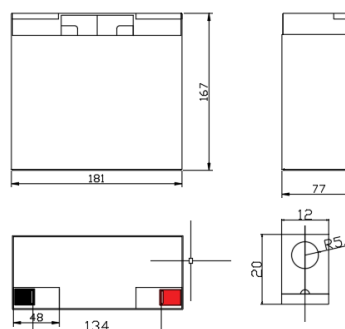


ISO 14001:2015
ISO 45001:2018
IATF 16949:2016

Battery Picture



Dimensions



Options with horizontal or vertical terminals depending on availability

Dimension and Weight

Dimension				Weight	Terminal
Length	Width	Height	Total Height	(± 3%)	
181 mm	77 mm	167mm	167 mm	4.8 kg	F3
7.13inch	3.03inch	6.57inch	6.57 inch	10.58lbs	

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

V/cell	15min	30min	1hr	3hr	5hr	10hr	20hr
1.60V	22.95	15.73	10.50	4.34	3.03	1.65	0.87
1.70V	22.10	15.30	10.20	4.25	2.98	1.62	0.86
1.75V	21.25	14.90	9.86	4.17	2.89	1.60	0.85
1.80V	20.40	14.48	9.35	4.08	2.81	1.58	0.83
1.85V	19.55	14.06	8.93	4.00	2.72	1.55	0.80

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

V/cell	15min	30min	1hr	3hr	5hr	10hr	20hr
1.60V	258.89	178.45	118.44	48.95	33.80	17.93	9.84
1.70V	245.29	172.58	115.06	48.68	33.20	17.93	9.73
1.75V	239.70	168.07	111.22	48.60	33.14	17.91	9.78
1.80V	230.11	163.33	105.47	48.31	32.18	17.74	9.65
1.85V	220.52	158.60	100.73	47.94	31.18	17.55	9.53

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

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Graphs

