

6FM9(12V9Ah)



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 0.45 A to 1.75Vpc | 9.0 Ah |
| 10 hour rate 0.83 A to 1.75Vpc | 8.3 Ah |
| 5 hour rate 1.53 A to 1.75Vpc | 7.65Ah |
| 1 hour rate 5.85 A to 1.60Vpc | 5.85 Ah |

Internal Resistance

(Fully charged battery @ 25°C /77°F) 17mΩ

Max. Discharge Current @ 25°C /77°F 90A (5S)

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

Cycle Use 14.4~ 14.7V

Max. Current 2.7A

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.

Typical Applications

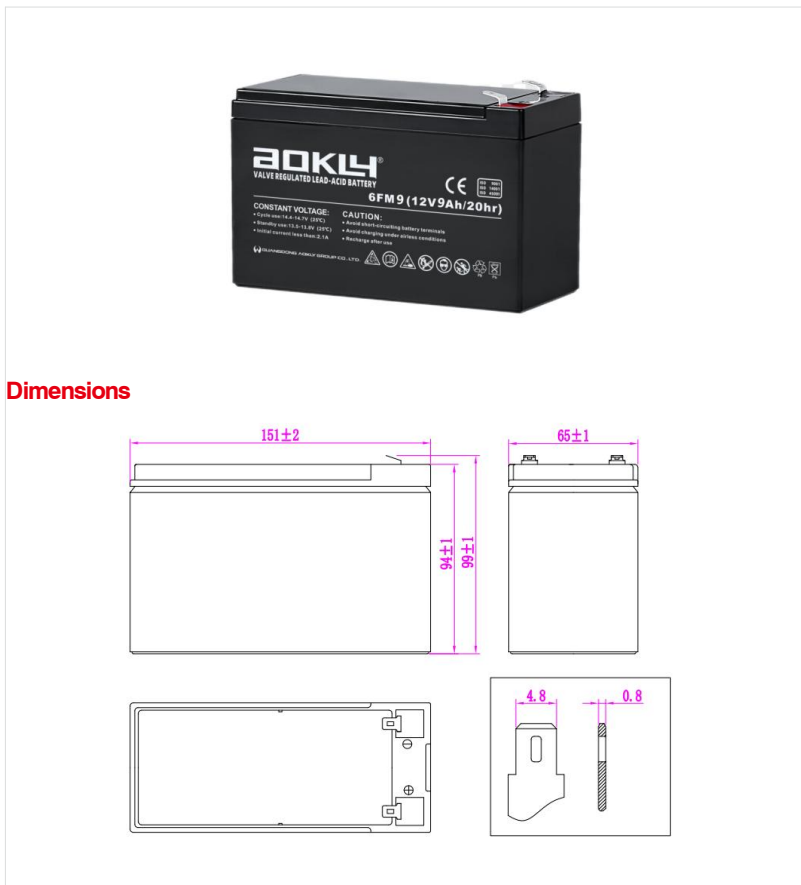


UPS
Telecom
Electric system

Certificates



Battery Picture



Dimension and Weight

| Dimension | | | | Weight (± 3%) | Terminal |
|-----------|----------|-----------|--------------|------------------|----------|
| Length | Width | Height | Total Height | | |
| 151 mm | 65 mm | 94 mm | 99 mm | 2.45kg | F1/F2 |
| 5.94 inch | 2.56inch | 3.70 inch | 3.90 inch | 5.40lbs | |

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

| V/cell | 15min | 30min | 1hr | 3hr | 5hr | 10hr | 20hr |
|--------|-------|-------|------|------|------|------|------|
| 1.60V | 15.75 | 10.35 | 5.85 | 2.34 | 1.58 | 0.86 | 0.47 |
| 1.70V | 14.47 | 9.83 | 5.58 | 2.30 | 1.55 | 0.84 | 0.45 |
| 1.75V | 13.50 | 9.52 | 5.40 | 2.25 | 1.53 | 0.83 | 0.45 |
| 1.80V | 12.60 | 9.09 | 5.22 | 2.21 | 1.46 | 0.81 | 0.44 |
| 1.85V | 11.70 | 8.46 | 4.95 | 2.12 | 1.40 | 0.79 | 0.43 |

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

| V/cell | 15min | 30min | 1hr | 3hr | 5hr | 10hr | 20hr |
|--------|--------|--------|-------|-------|-------|------|------|
| 1.60V | 168.53 | 111.78 | 63.77 | 25.74 | 17.37 | 9.49 | 5.21 |
| 1.70V | 161.40 | 110.53 | 62.78 | 25.93 | 17.58 | 9.49 | 5.15 |
| 1.75V | 152.55 | 108.58 | 61.56 | 25.76 | 17.60 | 9.52 | 5.18 |
| 1.80V | 144.27 | 104.99 | 60.29 | 25.58 | 17.04 | 9.39 | 5.11 |
| 1.85V | 135.72 | 98.98 | 57.92 | 24.85 | 16.51 | 9.29 | 5.04 |

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

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Graphs

