



# 12N9L-BS Sealed Maintenance Free Battery



## Features

- Advanced sulfate-resistant technology.
- Advanced calcium lead alloy technology.
- Maintenance-free design.
- Factory activated, Ready to install and go!
- Absorbed Glass Mat (AGM) technology.

## Performance Specifications

Nominal Voltage ----- 12 volts

Nominal Capacity 25°C (77°F)

20-hr. (0.45A to 10.5 volts) ----- 9.72AH

10-hr. (0.9A to 10.5 volts) ----- 9AH

5-hr. (1.8A to 10.2 volts) ----- 7.4AH

1C. (9A to 9.6 volts) ----- 4.1AH

3C. (27A to 9.6 volts) ----- 3.2 AH

Approximate Weight ----- 6.16 lbs. (2.87kg)

Cranking (by Tester) ----- 230Amperes

Cold Cranking (-18°C) ----- 120Amperes

Internal Resistance(at 1KHz) ----- Approx.12.3mΩ

Operating Temperature Range

Discharge ----- -22°F(-30°C) to 122°F(50°C)

Charge ----- 32°F(0°C) to 104°F(40°C)

Life Expectancy (Cycle Use)

60% depth of discharge ----- 250 cycles

30% depth of discharge ----- 400 cycles

Shelf Life (% of normal capacity at 68°F(20°C).....SOC% ocv)

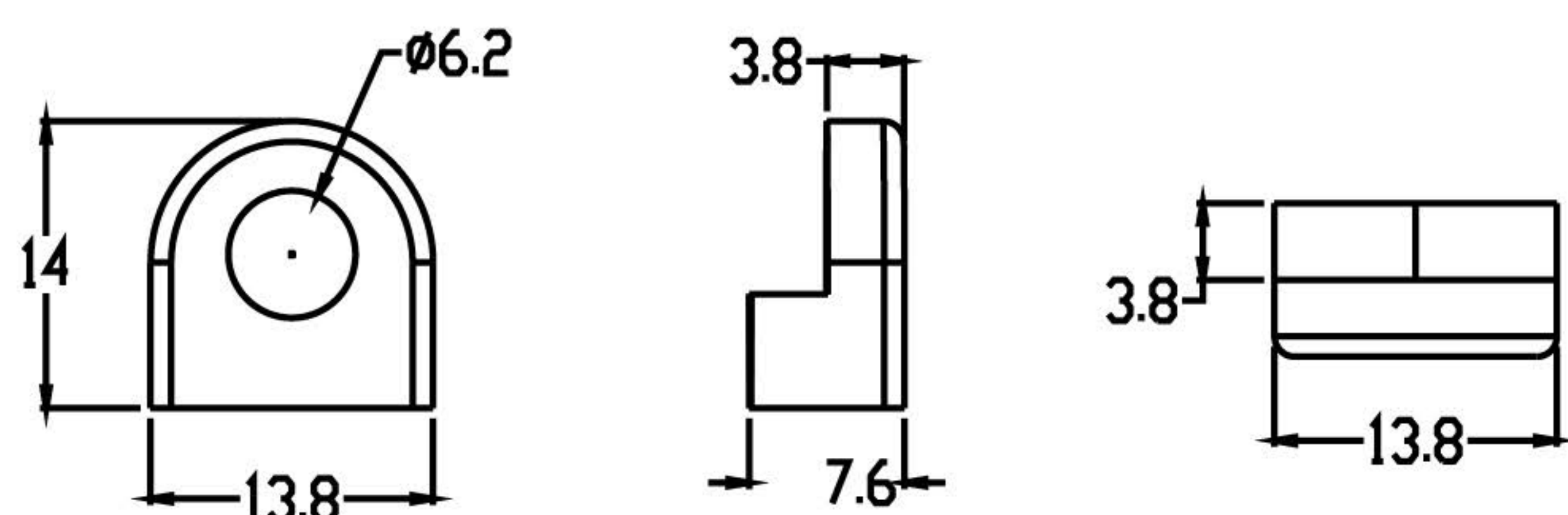
1 months ----- 91% 12.78V

3 months ----- 89% 12.70V

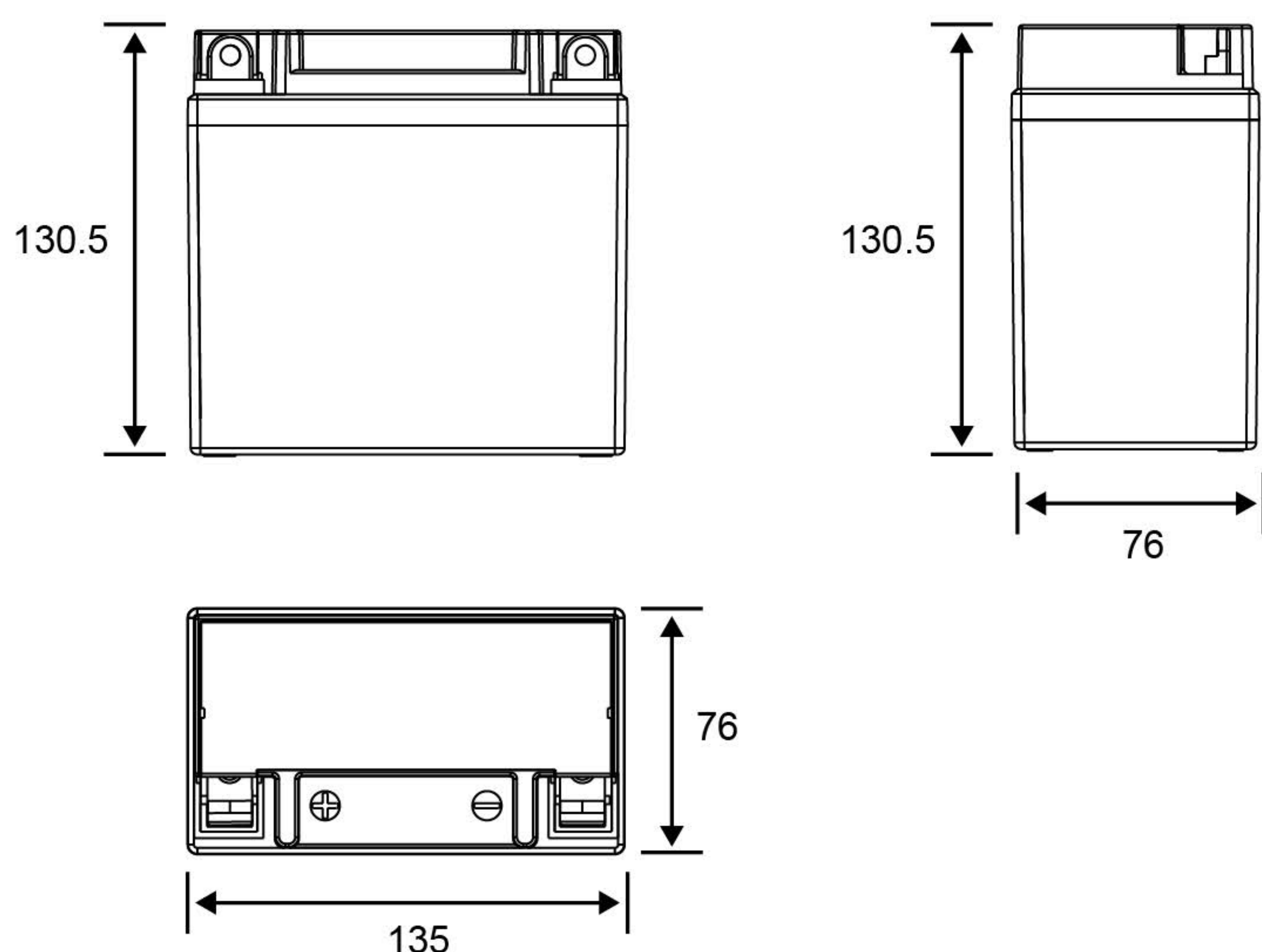
6 months ----- 80% 12.5V

Case ----- ABS

## Terminal Dimensions: (in./mm)



## Physical Dimensions: (in./mm)



Length:5.31in(135mm) Width:2.99in(76mm)

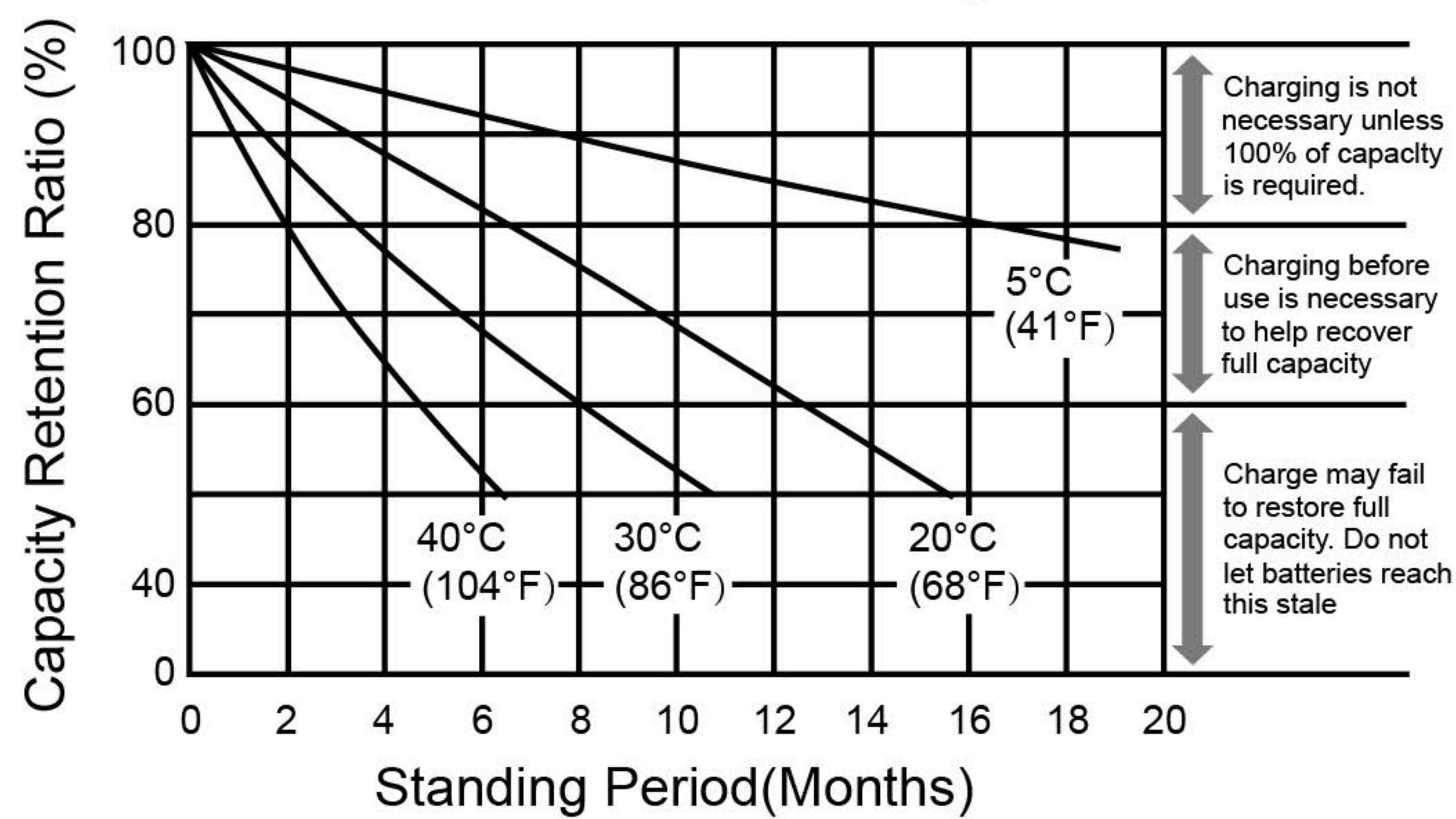
Height:5.14in(130.5mm)

Tolerances are  $\pm 0.04$  inches ( $\pm 1$ mm) and  $\pm 0.08$  inches ( $\pm 2$ mm) for height.

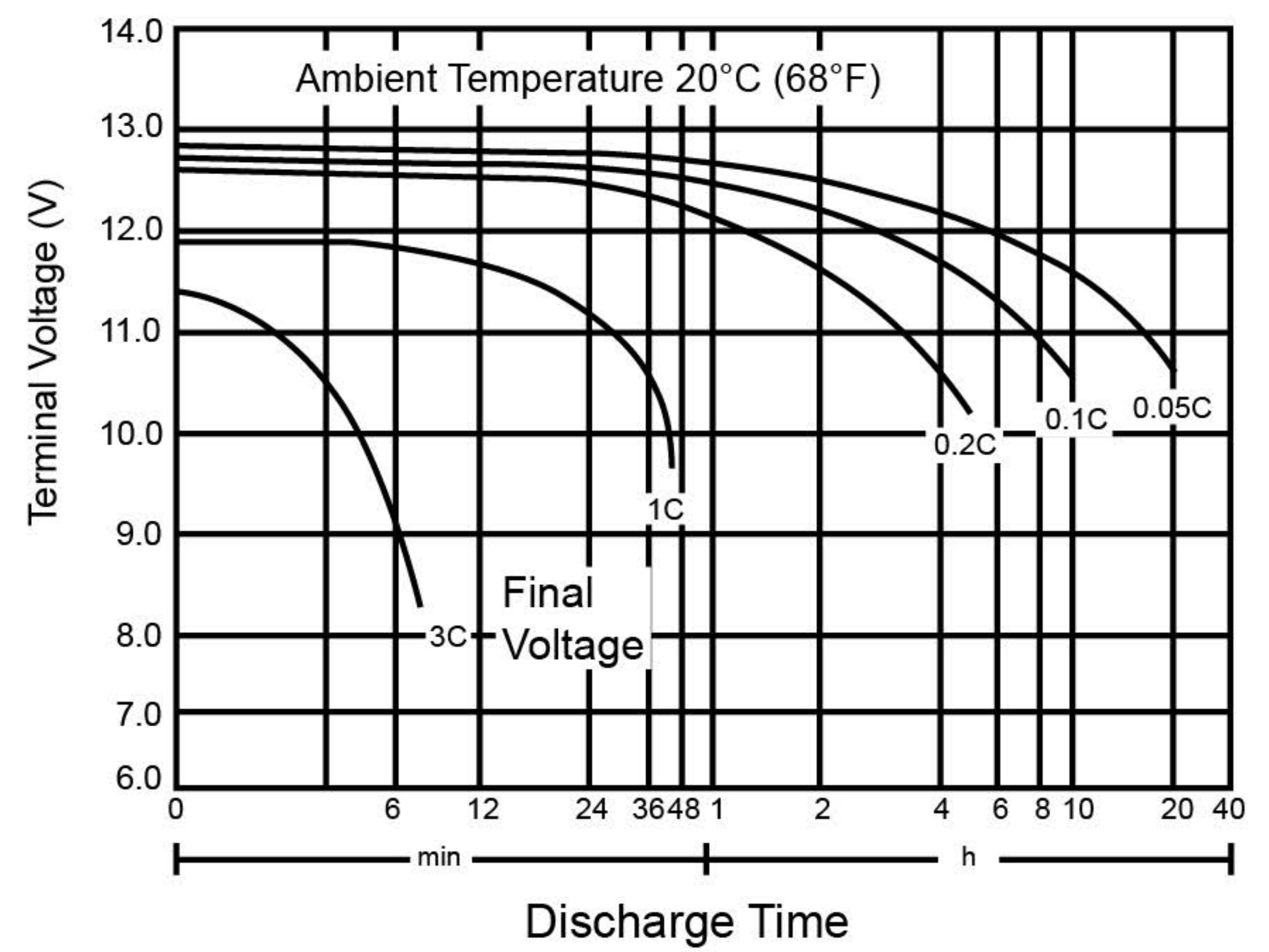




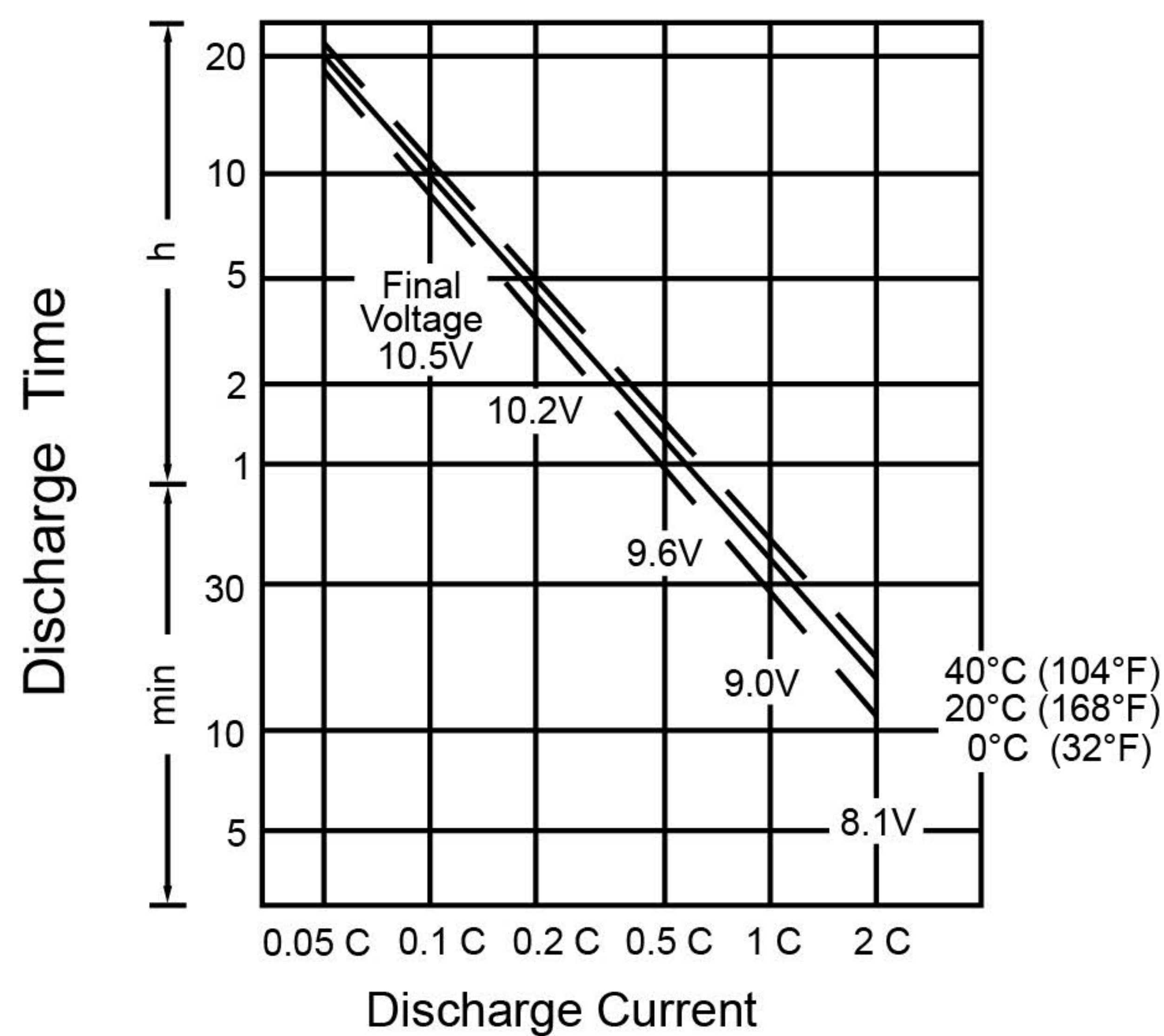
## Shelf life & Storage



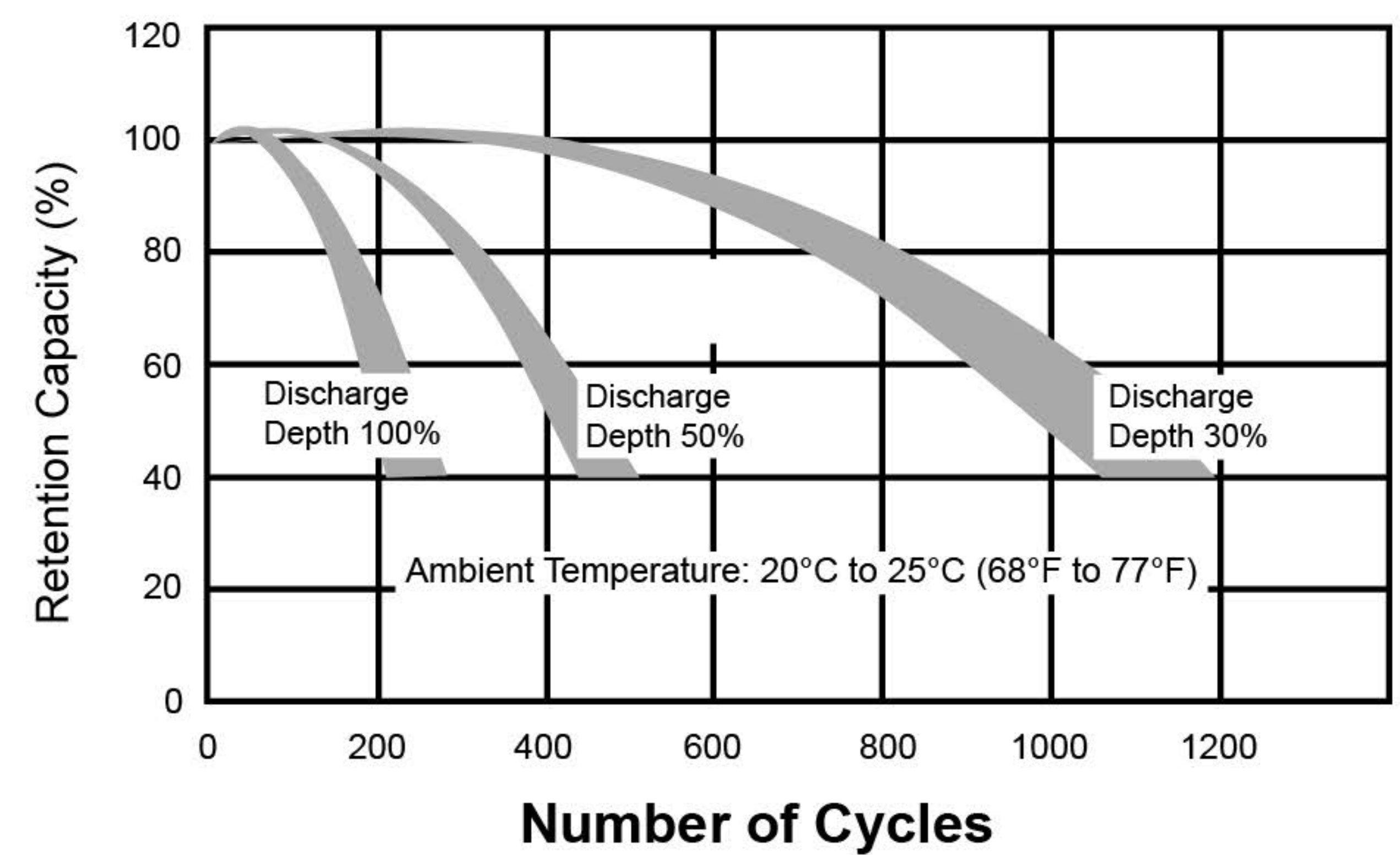
## Discharge Characteristics



## Discharge Time vs. Discharge Current



## Life Characteristics in Cyclic Use



## Charging

**Cycle Applications:** Limit initial current to 0.2C. Charge until battery voltage (under charge) reaches 14.8 to 15.0 volts at 68°F (20°C). Hold at 14.8 to 15.0 volts until current drops to under 50 mA. Battery is fully charged under these conditions, and charger should be disconnected or switched to "float" voltage.

**Note:** Due to the self-discharge characteristics of this type of battery, it is imperative that they be charged within 6 months of storage, otherwise permanent loss of capacity might occur as a result of sulfation.

## Can be used to replace:

12N9-4B-1	YB9-B		

## Further information:

Please contact our technical department for advice if you have difficulty or contact us at [info@agsbattery.ae](mailto:info@agsbattery.ae)