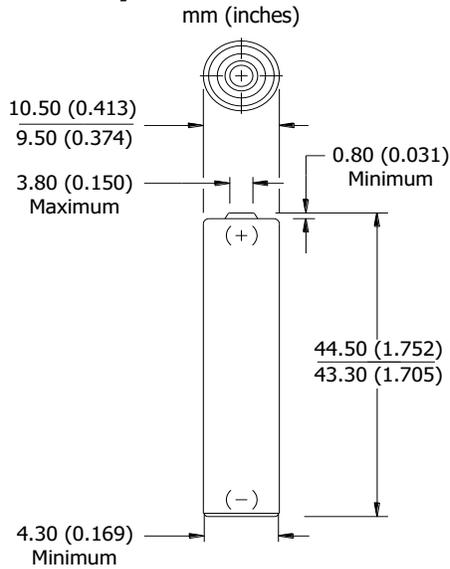


# ENERGIZER NH12-500 (HR03)

**AAA**

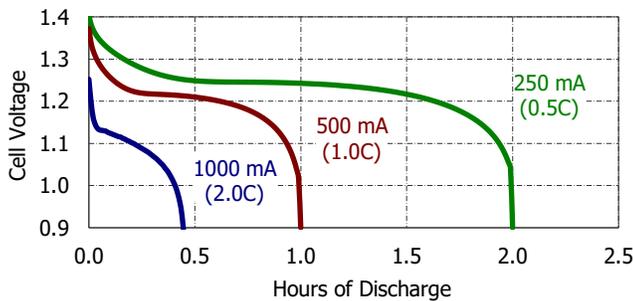
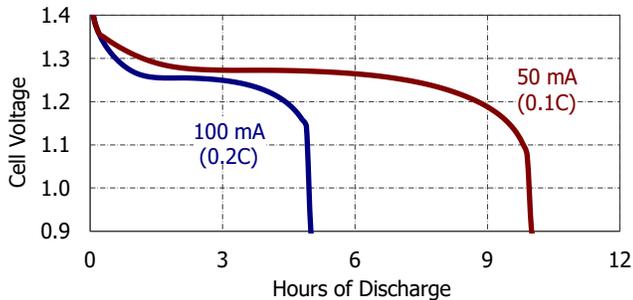


## Industry Standard Dimensions



## Discharge Characteristics

Typical Performance at 21°C (70°F)



## General Information

**Classification:** Rechargeable  
**Chemical System:** Nickel-Metal Hydride (NiMH)  
**Designation:** ANSI-1.2H1 IEC- HR03  
**Nominal Voltage:** 1.2 Volts  
**Rated Capacity:** 500 mAh\* at 21°C (70°F)  
 Based on 100 mA (0.2C) discharge rate  
**Typical Weight:** 10 grams (0.35 oz.)  
**Typical Volume:** 3.8 cubic centimeters (0.2 cubic inch)  
**Terminals:** Flat Contact  
**Jacket:** Plastic

## Internal Resistance:

The internal resistance of the cell varies with state of charge, as follows:

Cell Charged	Cell 1/2 Discharged
100 milliohms	120 milliohms

(tolerance of ±20% applies to above values)

## AC Impedance (no load):

The impedance of the charged cell varies with frequency, as follows:

Frequency (Hz)	Impedance (milliohms) (charged cell)
1000	35

Above values based on AC current set at 1.0 ampere.  
 Value tolerances are ±20%.

## Operating and Storage Temperatures:

To maintain maximum performance, observe the following general guidelines regarding environmental conditions:

Charge: 0°C to 40°C (32°F to 104°F)  
 Discharge: 0°C to 50°C (32°F to 122°F)  
 Storage: -20°C to 30°C (-4°F to 86°F)  
 Humidity: 65±20%

**NOTE:** Operating at extreme temperatures, will significantly impact battery cycle life.

## Important Notice

This datasheet contains typical information specific to products manufactured at the time of its publication.  
**Contents herein do not constitute a warranty and are for reference only.**