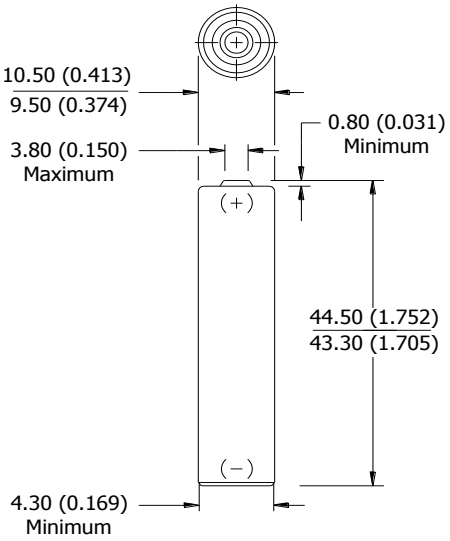
ENERGIZER NH12-500 (HR03)

AAA

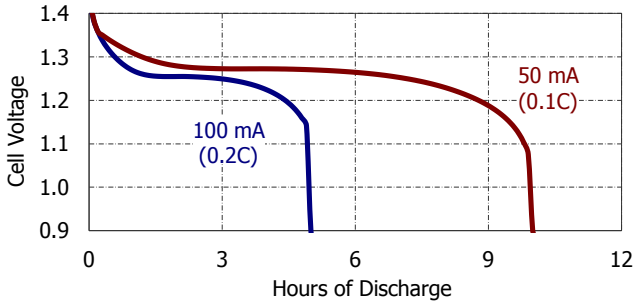
Industry Standard Dimensions

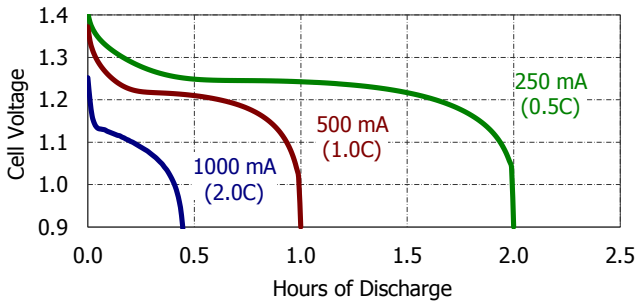
mm (inches)



Discharge Characteristics

Typical Performance at 21ºC (70ºF)





Specifications

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:	0ºC to 40ºC (32ºF to 104ºF)
Discharge:	0ºC to 50ºC (32ºF to 122ºF)
Storage:	-20ºC to 30ºC (-4ºF to 86ºF)
Humidity:	65±20%

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

Important Notice

This data sheet contains typical information specific to products manufactured at the time of its publication.