



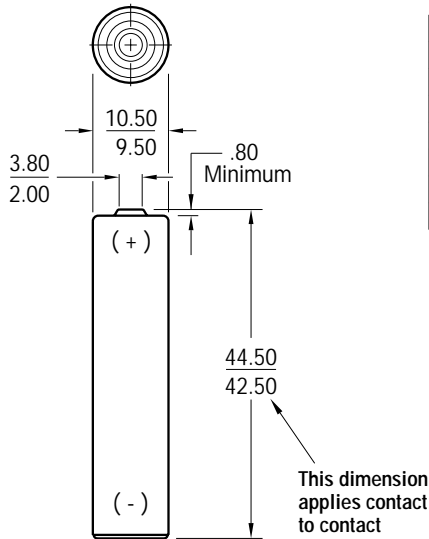
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 St. Louis, MO 63164  
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 Internet: www.energizer.com

## Engineering Data

### ENERGIZER NO. NH12

**AAA**  
 Rechargeable 1.2V  
 Nickel-Metal Hydride

Dimensions (mm)



Millimeters	Inches
.80	.031
2.00	.079
3.80	.150
9.50	.374
10.50	.413
42.50	1.673
44.50	1.752

**Chemical System:** Nickel-Metal Hydride (NiMH)

**Designations:** Not Assigned  
**Battery Voltage:** 1.2 Volts  
**Average Weight:** 12 grams (.42 oz.)  
**Volume:** 3.8 cubic centimeters (.23 cubic inch)  
**Terminals:** Flat Contact  
**Rated Capacity (to 1.0 Volt):** 650 mAh  
 (Based on 110 mA (0.2C) discharge rate)  
**Maximum Charge Rate:** 110 mA  
**Jacket:** Plastic Sleeve

#### 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)

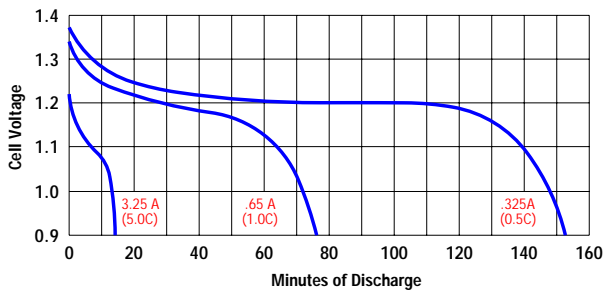
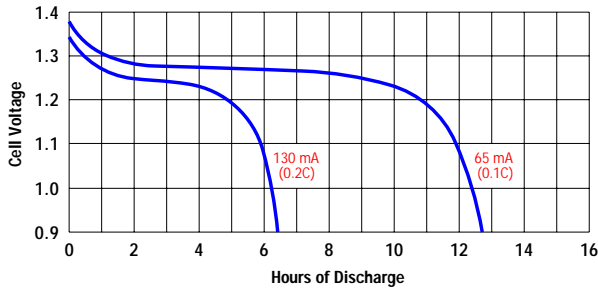
#### AC Impedance (No Load)

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

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

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

**TYPICAL DISCHARGE CHARACTERISTICS**  
 Average Performance at 21°C (70°F)



#### Operating and Storage Temperatures

Ranges of temperature applicable to operation of the HR03 cells are:

Charge @ 0.1C: 32°F to 122°F (0°C to 50°C)  
 Discharge @ 0.1C: -4°F to 122°F (-20°C to 50°C)  
 Storage: -40°F to 122°F (-40°C to 50°C) (6 Months Max.)  
 -4°F to 95°F (-20°C to 35°C) (2 Years Max.)

Operating at extreme temperature will significantly effect service and cycle life.

#### IMPORTANT NOTICE

This data sheet contains information specific to batteries manufactured at time of its publication. Please contact your Energizer representative for most current information. Contents herein do not constitute a warranty.