NICKEL METAL HYDRIDE BATTERIES: INDIVIDUAL DATA SHEET

HHR75AAA/B Cylindrical AAA size (HR 11/45)

Dimensions (with Tube) (mm)

![Diagram showing dimensions](image)

**Typical Discharge Characteristics**

<table>
<thead>
<tr>
<th>Charge</th>
<th>Standard</th>
<th>Rapid</th>
</tr>
</thead>
<tbody>
<tr>
<td>Current</td>
<td>70mA x 16hrs.</td>
<td>450mA x 1.7 hrs.</td>
</tr>
<tr>
<td>Temperature</td>
<td>0°C to 45°C, 32°F to 113°F</td>
<td>0°C to 40°C, 32°F to 104°F</td>
</tr>
</tbody>
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**Typical Charge Characteristics**

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<th>Charge</th>
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<tbody>
<tr>
<td>Current</td>
<td>450mA (0.64It) x 1.7hrs, 20°C.</td>
<td>140mA (0.2It)</td>
</tr>
<tr>
<td>Temperature</td>
<td>0°C, 20°C, 45°C</td>
<td></td>
</tr>
</tbody>
</table>

**Specifications**

<table>
<thead>
<tr>
<th>Metric</th>
<th>Inch</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diameter</td>
<td>10.5+0/-0.7</td>
</tr>
<tr>
<td>Height</td>
<td>44.5+0/-1.0</td>
</tr>
<tr>
<td>Weight</td>
<td>12 grams</td>
</tr>
</tbody>
</table>

**Nominal Voltage**

1.2V

**Discharge Capacity**

- Average**: 730 mA
- Rated (Min.): 700 mA

**Approx. Internal impedance at 1000Hz at charged state.**

35mΩ

**Charge**

- Standard: 70mA x 16hrs.
- Rapid: 450mA x 1.7 hrs.

**Ambient Temperature**

- **Discharge**:
  - 0°C to 45°C, 32°F to 113°F
  - 0°C to 40°C, 32°F to 104°F

- **Storage**:
  - < 1 year: -20°C to 35°C, -4°F to 95°F
  - < 3 months: -20°C to 45°C, -4°F to 113°F
  - < 1 month: -20°C to 55°C, -4°F to 131°F

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**Note:**

- [It] was previously expressed as [C]. [It] is an IEC standard expression for the amount of charge or discharge current and is expressed as:
  \[ I(t) = C_n \times \text{Ah}/1\text{h}. \]
- [It] is the reference test current in amperes
- [Cn] is the rated capacity of the cell or battery in Ampere-hours
- n = the time base [hours] for which the rated capacity is declared

Battery performance and cycle life are strongly affected by how they are used. In order to maximize battery safety, please consult Panasonic when determining charge / discharge specs, warning label contents and unit design.

Panasonic NICKEL METAL HYDRIDE HANDBOOK AUGUST 2005

This information is generally descriptive only and is not intended to make or imply any representation, guarantee or warranty with respect to any cells and batteries. Cell and battery designs/specifications are subject to modification without notice. Contact Panasonic for the latest information.