Eveready Battery Company, Inc.
533 Maryville University Drive
St. Louis, MO 63141
Telephone 1-800-383-7323
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Engineering Data

AA
Rechargeable 1.2V

Nickel-Cadmium

Chemical System: Nickel-Cadmium (NiCd)
Battery Voltage: 1.2 Volts
Average Weight: 22.7 grams (0.8 oz.)
Volume: 8.3 cubic centimeters (0.51 cubic inch)
Terminals: Flat Contact
Rated Capacity: (to 1.0 Volt): 650 mAh
(Based on 130 mA (0.2C) discharge rate)
Maximum Charge Rate: 195 mA
Jacket: Plastic

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

<table>
<thead>
<tr>
<th>Cell Condition</th>
<th>Internal Resistance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cell Charged</td>
<td>35 milliohms</td>
</tr>
<tr>
<td>Cell 1/2 Discharged</td>
<td>45 milliohms</td>
</tr>
</tbody>
</table>

(Tolerance of ±20% applies to above values)

AC Impedance (No Load)
The impedance of the charged cell varies with frequency, as follows:

<table>
<thead>
<tr>
<th>Frequency (Hz)</th>
<th>Impedance (milliohms)</th>
</tr>
</thead>
<tbody>
<tr>
<td>50</td>
<td>19</td>
</tr>
<tr>
<td>1000</td>
<td>18</td>
</tr>
<tr>
<td>10000</td>
<td>20</td>
</tr>
</tbody>
</table>

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

Operating and Storage Temperatures
Ranges of temperature applicable to operation of the CH15 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 140°F (-40°C to 60°C) (6 Months Max.)
- 4°F to 95°F (20°C to 35°C) (2 Years Max.)

Operating at extreme temperature will significantly affect 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.