Engineering Data

D
Rechargeable 1.2V
Nickel-Cadmium

Chemical System: Nickel-Cadmium (NiCd)
Designation: ANSI / NEDA-10013, IEC-KR35/82
Battery Voltage: 1.2 Volts
Average Weight: 67 grams (2.4 oz.)
Volume: 56.5 cubic centimeters (3.5 cubic inch)
Terminals: Flat Contact
Rated Capacity: (to 1.0 Volt): 1.8 Ah
(Based on 360 mA (0.2C) discharge rate)
Maximum Charge Rate: 540 mA
Cell: One “sub C” in “D” size container
Jacket: Plastic Label

Internal resistance

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

Cell Charged
20 milliohms

Cell 1/2 Discharged
30 milliohms
(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>12</td>
</tr>
<tr>
<td>1000</td>
<td>11</td>
</tr>
<tr>
<td>10000</td>
<td>14</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 CH50 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 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.