ENERGIZER NH50-2500 (HR20)

Industry Standard Dimensions

mm (inches)

9.50 (0.374) Maximum

34.20 (1.346) Minimum

32.30 (1.272) (0.059) 1.50

61.50 (2.421) 59.50 (2.343)

18.0 (0.709) Minimum

Specifications

Classification: Rechargeable
Chemical System: Nickel-Metal Hydride (NiMH)
Designation: ANSI-1.2H4
Nominal Voltage: 1.2 Volts
Rated Capacity: 2500 mAh* at 21°C (70°F)
Typical Weight: 73.0 grams (2.6 oz.)
Typical Volume: 57.0 cubic centimeters (3.5 cubic inch)
Terminals: Flat Contact
Jacket: Plastic

* Based on 500 mA (0.2C rate) continuous discharge to 1.0 volts.

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

<table>
<thead>
<tr>
<th>State of Charge</th>
<th>Resistance (milliohms)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cell Charged</td>
<td>11</td>
</tr>
<tr>
<td>Cell 1/2 Discharged</td>
<td>21</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) (charged cell)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1000</td>
<td>9</td>
</tr>
</tbody>
</table>

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:

<table>
<thead>
<tr>
<th>Condition</th>
<th>Temperature Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Charge</td>
<td>0°C to 40°C (32°F to 104°F)</td>
</tr>
<tr>
<td>Discharge</td>
<td>0°C to 50°C (32°F to 122°F)</td>
</tr>
<tr>
<td>Storage</td>
<td>-20°C to 30°C (-4°F to 86°F)</td>
</tr>
<tr>
<td>Humidity</td>
<td>65±20%</td>
</tr>
</tbody>
</table>

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.
Contents herein do not constitute a warranty and are for reference only.