**ENERGIZER NH50-2500 (HR20)**

**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>Condition</th>
<th>Impedance (milliohms)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cell Charged</td>
<td>11 milliohms</td>
</tr>
<tr>
<td>Cell 1/2 Discharged</td>
<td>21 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) (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:

- **Charge:** 0°C to 40°C (32°F to 104°F)  
- **Discharge:** 0°C to 50°C (32°F to 122°F)  
- **Storage:** -20°C to 30°C (-4°F to 86°F)  
- **Humidity:** 65±20%

**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.