ENERGIZER NH12-500 (HR03)

Specifications

Classification: Rechargeable
Chemical System: Nickel-Metal Hydride (NiMH)
Designation: ANSI-1.2H1  IEC- HR03
Nominal Voltage: 1.2 Volts
Rated Capacity: 500 mAh* at 21°C (70°F)
   Based on 100 mA (0.2C) discharge rate
Typical Weight: 10 grams (0.35 oz.)
Typical Volume: 3.8 cubic centimeters (0.2 cubic inch)
Terminals: Flat Contact
Jacket: Plastic

Industry Standard Dimensions

mm (inches)
10.50 (0.413)
9.50 (0.374)
3.80 (0.150)
Minimum
0.80 (0.031)
Maximum

Discharge Characteristics

Typical Performance at 21°C (70°F)

Cell Voltage

Hours of Discharge

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

<table>
<thead>
<tr>
<th>State of Charge</th>
<th>Impedance (milliohms)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cell Charged</td>
<td>100 milliohms</td>
</tr>
<tr>
<td>Cell 1/2 Discharged</td>
<td>120 milliohms</td>
</tr>
<tr>
<td>(tolerance of ±20% applies to above values)</td>
<td></td>
</tr>
</tbody>
</table>

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>1000</td>
<td>35</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.
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