**Specifications**

Classification: Rechargeable  
Chemical System: Nickel-Metal Hydride (NiMH)  
Designation: IEC-HR03  
Nominal Voltage: 1.2 Volts  
Rated Capacity: 500 mAh (to 1.0 volts)  
Based on 140 mA (0.2C) discharge rate  
Typical Weight: 12.0 grams  
Typical Volume: 3.8 cubic centimeters  
Jacket: Plastic Label

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**Internal Resistance:**

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

- **Cell Charged:** 100 milliohms
- **Cell 1/2 Discharged:** 120 milliohms  
(tolerance of ±20% applies to above values)

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**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%.

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**Operating and Storage Temperatures:**

To maintain maximum performance, observe the following general guidelines regarding environmental conditions.

- **Charge:** 0°C to 40°C  
- **Discharge:** 0°C to 50°C  
- **Storage:** -20°C to 30°C  
- **Humidity:** 65±20%  

Operating at extreme temperatures will significantly impact battery cycle life.

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**Important Notice**

This datasheet 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.