**Specifications**

- **Classification:** "Cylindrical Primary Lithium"
- **Chemical System:** Lithium/Iron Disulfide (Li/FeS₂)
- **Designation:** ANSI 15-LF, IEC-FR14505 (FR6)
- **Nominal Voltage:** 1.5 Volts
- **Sizing Compatibility:** E91 NH15 1215
- **Storage Temp:** -40°C to 60°C (-40°F to 140°F)
- **Operating Temp:** -40°C to 60°C (-40°F to 140°F)*
- **Typical Weight:** 15 grams (0.5 oz.)
- **Typical Volume:** 8.0 cubic centimeters (0.49 cubic inch)
- **Max Discharge:** 2.5 amps continuous
  (single battery only)
- **Lithium Content:** Less than 1 gram
- **Typical IR:** 120 to 240 milliohms (depending on method)
- **Shelf Life:** 25 years at 21°C
- **More Details:** On-Line Catalog-Application Manual (Li/FeS₂)
- **Shipping:** Please refer to PSDS Document

*All data shown tested at 21°C unless otherwise stated.*

**Milliamp-Hours Capacity**

Constant Current Discharge to 0.8 Volts

<table>
<thead>
<tr>
<th>Current (mA)</th>
<th>AA Lithium</th>
<th>AA Alkaline</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 mA</td>
<td>4000 mAh</td>
<td>2700 mAh</td>
</tr>
<tr>
<td>10 mA</td>
<td>3000 mAh</td>
<td>2000 mAh</td>
</tr>
<tr>
<td>100 mA</td>
<td>2000 mAh</td>
<td>1000 mAh</td>
</tr>
</tbody>
</table>

(alkaline shown for comparison)

**Temperature Effects on Capacity**

Constant Current Discharge

<table>
<thead>
<tr>
<th>Current (mA)</th>
<th>Capacity (mAh)</th>
</tr>
</thead>
<tbody>
<tr>
<td>25 mA</td>
<td>3900 mAh</td>
</tr>
<tr>
<td>250 mA</td>
<td>2800 mAh</td>
</tr>
<tr>
<td>1000 mA</td>
<td>1800 mAh</td>
</tr>
</tbody>
</table>

**Discharge Profile**

Constant Current Discharge

- 1 mA
- 10 mA
- 100 mA

**Temperature**

<table>
<thead>
<tr>
<th>Temperature (°C)</th>
<th>Capacity (mAh)</th>
</tr>
</thead>
<tbody>
<tr>
<td>-50</td>
<td>3900 mAh</td>
</tr>
<tr>
<td>-40</td>
<td>2800 mAh</td>
</tr>
<tr>
<td>-30</td>
<td>1800 mAh</td>
</tr>
<tr>
<td>-20</td>
<td>900 mAh</td>
</tr>
<tr>
<td>-10</td>
<td>0 mAh</td>
</tr>
<tr>
<td>0</td>
<td>0 mAh</td>
</tr>
<tr>
<td>10</td>
<td>2800 mAh</td>
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</tr>
<tr>
<td>30</td>
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</tr>
</tbody>
</table>

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**ENERGIZER L91**

### Internal Resistance Profile
Cell Ohmic Resistance - Dual Pulse Method

- **Resistance (ohms)** vs. **Discharge Capacity (mAh)**

### Pulse Response
Open Circuit Voltage - 100/500/1k mA Pulse

- **Voltage (volts)** vs. **Time (milliseconds)**

(E91 AA alkaline shown for comparison)

### Constant Power Performance
Typical Characteristics to 0.8 Volts

- **Service (hours)** vs. **Discharge (mW)**

### Constant Current Performance
Typical Characteristics to 0.8 Volts

- **Service (hours)** vs. **Discharge (mA)**

### Application Tests
- **REMOTE/RADIO/CLOCK**
  - 50 mA 1 hr/8 hrs day

- **CD/GAMES**
  - 250 mA 1 hr/day

- **DIGITAL AUDIO**
  - 100 mA 1 hr/day

- **PORTABLE LIGHTING**
  - 3.3 ohm LIF

- **TOY**
  - 3.9 ohm 1 hr/day

- **PERSONAL GROOMING**
  - 750 mA 2 min/hr 8 hrs/day

- **DIGITAL CAMERA**
  - 1.5/.65K mW 2/.1/27.9s 10X

### Industry Standard Tests

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