**ENERGIZER L91**

*Ultimate Lithium*

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**Specifications**

- **Classification:** "Cylindrical Lithium"
- **Chemical System:** Lithium/Iron Disulfide (Li/FeS$_2$)
- **Designation:** ANSI 15-LF, IEC-FR6
- **Nominal Voltage:** 1.5 Volts
- **Compatible With:** [EA91, 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:** 14.5 grams (0.5 oz.)
- **Typical Volume:** 8.0 cubic centimeters (0.49 cubic inch)
- **Max Discharge:**
  - 3.0 Amps Continuous
  - 5.0 Amps Pulse (2 sec on / 8 sec off)
- **Max Rev Current:** 2 uA
- **Lithium Content:** Less than 1 gram
- **Typical IR:** 60 to 210 milliohms (depending on method)
- **Shelf Life:** 20 years at 21°C
- **Shipping:** Please refer to PSDS Document

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**Industry Standard Dimensions**

<table>
<thead>
<tr>
<th>mm (inches)</th>
<th>Maximum</th>
<th>Minimum</th>
</tr>
</thead>
<tbody>
<tr>
<td>(+)</td>
<td>14.50 (0.571)</td>
<td>1.00 (0.039)</td>
</tr>
<tr>
<td>(-)</td>
<td>50.50 (1.988)</td>
<td>7.00 (0.276)</td>
</tr>
</tbody>
</table>

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

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**Temperature Effects on Capacity**

*Constant Current Discharge*

<table>
<thead>
<tr>
<th>Temperature (°C)</th>
<th>Capacity (mAh)</th>
</tr>
</thead>
<tbody>
<tr>
<td>-60</td>
<td></td>
</tr>
<tr>
<td>-40</td>
<td></td>
</tr>
<tr>
<td>-20</td>
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<tr>
<td>0</td>
<td></td>
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<tr>
<td>20</td>
<td></td>
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<tr>
<td>40</td>
<td></td>
</tr>
<tr>
<td>60</td>
<td></td>
</tr>
<tr>
<td>80</td>
<td></td>
</tr>
</tbody>
</table>

*alkaline shown for comparison*

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**Important Notice**

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Form No. EBC-4201T9X-B
**ENERGIZER L91**

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

![Internal Resistance Profile Graph]

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

![Pulse Response Graph]

**Application Tests**

- **REMOTE**
  24 ohm 15 sec/min 8 hrs/day

- **RADIO**
  43 ohm 4 hrs/day

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

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

- **PORTABLE LIGHTING**
  3.3 ohm LIF

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

- **TOOTHBRUSH**
  500 mA 2/13 min 24 hrs/day

- **PHOTO**
  1K mA 10 sec/min 1 hr/day

**Constant Power Performance**
Typical Characteristics to 0.8 Volts

![Constant Power Performance Graph]

**Constant Current Performance**
Typical Characteristics to 0.8 Volts

![Constant Current Performance Graph]

**Industry Standard Tests**

- **PHOTOFLASH**
  1K mA 10 sec/min 1 hr/day

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

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