**ENERGIZER NO. EV190**

**INDUSTRIAL HEAVY DUTY**

**NOT INTENDED FOR RETAIL TRADE**

**Chemical System:** Zinc-Manganese Dioxide (Zn/MnO$_2$)  
(No Added Mercury or Cadmium)

**Designation:** ANSI-908CD, IEC-4R25X

**Battery Voltage:** 6 Volts

**Operating Temp:** -18ºC to 55ºC (0ºF to 130ºF)

**Average Weight:** 589 grams (20.8 oz.)

**Volume:** 480 cubic centimeters (29.2 cubic inch)

**Average Capacity:** 11 Ah to 0.8 volts / cell  
(Rated at 25k ohms continuous at 21ºC)

**Cell:** Four No. 60 (size "F") in series

**Terminals:** Coil Spring

**Jacket:** Plastic

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### INTERNAL RESISTANCE VS. TEMPERATURE

The measurement is an approximation of the battery's actual internal resistance. It is sensitive to the loads and operator technique.

**Schedule:**
- Background Load 600 ohms
- Pulse Load 10 ohms
- Pulse Duration 1 second

<table>
<thead>
<tr>
<th>Temperature</th>
<th>Typical Ri (ohms)</th>
</tr>
</thead>
<tbody>
<tr>
<td>45ºC (113ºF)</td>
<td>0.7</td>
</tr>
<tr>
<td>21ºC (70ºF)</td>
<td>0.9</td>
</tr>
<tr>
<td>0ºC (32ºF)</td>
<td>1.0</td>
</tr>
<tr>
<td>-21ºC (-4ºF)</td>
<td>10.0</td>
</tr>
</tbody>
</table>

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### CONSTANT RESISTANCE PERFORMANCE

Typical Service

![Graph showing constant resistance performance](image)

**Important Notice**

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ENGLISHER NO. EV190

Typical Applications

- **Lighting**
  - Voltage, CCV
  - Load: 33 ohms
  - Schedule: 30 min. ON
  - 30 min. OFF
  - 8 hours/day

- **Lighting**
  - Voltage, CCV
  - Load: 16 ohms
  - Schedule: 30 min. ON
  - 30 min. OFF
  - 8 hours/day

- **Lighting**
  - Voltage, CCV
  - Load: 9.1 ohms
  - Schedule: 24 hrs/day

- **Lighting**
  - Voltage, CCV
  - Load: 9.1 ohms
  - Schedule: 30 min. ON
  - 30 min. OFF
  - 8 hours/day

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