Eveready 510S

**Chemical System:** Zinc-Manganese Dioxide (Zn/MnO₂)  
(No Added Mercury or Cadmium)

**Designation:** ANSI-915, IEC-4R25

**Battery Voltage:** 6.0 Volts

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

**Average Weight:** 600 grams (21.2 oz.)

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

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

**Jacket:** Plastic

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**I N T E R N A L R E S I S T A N C E VS. T E M P E R A T U R E**

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>0.8</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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**C O N S T A N T R E S I S T A N C E P E R F O R M A N C E**

**Typical Service**

<table>
<thead>
<tr>
<th>Discharge Resistance, Ohms</th>
<th>Service, Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1000</td>
</tr>
<tr>
<td>10</td>
<td>100</td>
</tr>
<tr>
<td>100</td>
<td>10</td>
</tr>
<tr>
<td>1000</td>
<td>1</td>
</tr>
</tbody>
</table>

3.0 Cutoff Voltage  
4.4 Cutoff Voltage  
5.2 Cutoff Voltage

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**C O N S T A N T C U R R E N T D I S C H A R G E**

**Typical Service**

<table>
<thead>
<tr>
<th>Discharge Current, mA</th>
<th>Service, Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1000</td>
</tr>
<tr>
<td>10</td>
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**I mportant Notice**

This data sheet contains information specific to batteries manufactured at the time of its publication.  
Contents herein do not constitute a warranty.
Eveready 510S

Typical Applications

### LIGHTING

**9.1 ohm - 30 min/ day**

- Voltage, CCV vs. Service, Hours

**9.1 ohm - 30 min/ on 30min/ off 8 hr/ day**

- Voltage, CCV vs. Service, Hours

**33 ohm - 30 min/ on 30min/ off 8 hr/ day**

- Voltage, CCV vs. Service, Hours

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