**ENERGIZER NO. 413**

Industry Standard Dimensions in mm (inches)

- FLAT CONTACT TYPE WITH
  - Holes 2.4 (0.094) DIAMETER
- 5.60R (0.220)
  - Typical
- 16.00 (0.630)
- 14.00 (0.551)
- 26.20 (1.031)
- 24.60 (0.989)
- 0.80 (0.031) Minimum

**Chemical System:** Zinc-Manganese Dioxide (Zn/MnO₂)

**Designation:** ANSI / NEDA-210, IEC-20F20

**Battery Voltage:** 30 Volts

**Average Weight:** 48 grams (1.7 oz.)

**Volume:** 27 cubic centimeters (1.6 cubic inch)

**Average Capacity:** 140 mAh to 0.8 volts/cell
  (Rated at 25 mA continuous drain at 21°C)

**Cells:** Twenty No. 112 in series

**Jacket:** Metal

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**TYPICAL DISCHARGE CURVE**
Simulated Test @ 21°C (70°F)

**Simulated Application Test**
Estimated Average Service at 21°C (70°F)

<table>
<thead>
<tr>
<th>Typical Drains at 24V</th>
<th>Load (ohms)</th>
<th>Cutoff Voltage</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Schedule:</td>
<td>(milliamperes)</td>
<td>16V 18V 20V 22V 24V 26V</td>
<td></td>
</tr>
<tr>
<td>4 hours/day</td>
<td>0.8</td>
<td>30,000</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>162 151 147 138 115 77</td>
<td></td>
</tr>
</tbody>
</table>

**Important Notice**
This data sheet contains information specific to batteries manufactured at the time of its publication.

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