General Application

12VHR36W is custom designed specifically for the UPS applications. It offers much improved power density of Up to 30% more watts per kilogram than our conventional VC Series.

Specification

- **Nominal Voltage**: 12 V
- **Nominal Capacity**: 36 Wh/cell @ 15 Minutes rate to 1.6V/25°C (77°F)
- **Dimensions**
  - **Total Height**: 100 mm (3.94 inches)
  - **Container Height**: 94 mm (3.70 inches)
  - **Length**: 151 mm (5.94 inches)
  - **Width**: 65 mm (2.56 inches)
- **Weight**: APPROX 2.9 Kg (6.40 lbs)
- **Container Material**: UL94HB ABS
  - **Internal Resistance**: (25°C, 77°F): ~15 mΩ
- **Discharge Capacity Under Different Temperatures**
  - 40°C: ~102%
  - 25°C: ~100%
  - 0°C: ~85%

Characteristics

- **Charging Voltage (25°C, 77°F)**
  - Standby Use: 13.65V ± 0.15 V
  - Cycle Use: 14.7V ± 0.3 V
- **Max Discharge Current**: 150 A (5SEC)
- **Max Charging Current**: 2.70 A
- **Self-Discharge Residual Capacity (25°C, 77°F)**
  - After 3 Months: ~90%
  - After 6 Months: ~82%
  - After 12 Months: ~70%

**Constant power discharge Watts (25°C, 77°F)**

<table>
<thead>
<tr>
<th>Time (h)</th>
<th>3M</th>
<th>5M</th>
<th>7M</th>
<th>10M</th>
<th>15M</th>
<th>30M</th>
<th>60M</th>
<th>90M</th>
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<tbody>
<tr>
<td>1.6V</td>
<td>88.8</td>
<td>69.4</td>
<td>58.3</td>
<td>47.0</td>
<td>36.2</td>
<td>20.7</td>
<td>11.3</td>
<td>8.3</td>
</tr>
<tr>
<td>1.7V</td>
<td>80.4</td>
<td>62.5</td>
<td>54.5</td>
<td>44.7</td>
<td>34.0</td>
<td>19.3</td>
<td>10.4</td>
<td>8.1</td>
</tr>
<tr>
<td>1.8V</td>
<td>72.4</td>
<td>58.3</td>
<td>49.2</td>
<td>40.0</td>
<td>31.6</td>
<td>18.5</td>
<td>10.3</td>
<td>7.9</td>
</tr>
</tbody>
</table>

**Constant current discharge Amperes (25°C, 77°F)**

<table>
<thead>
<tr>
<th>Time (h)</th>
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<th>7M</th>
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</tr>
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<td>1.6V</td>
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<td>34.4</td>
<td>29.1</td>
<td>24.0</td>
<td>18.0</td>
<td>10.2</td>
<td>5.6</td>
<td>4.2</td>
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<tr>
<td>1.7V</td>
<td>40.0</td>
<td>31.3</td>
<td>27.4</td>
<td>22.3</td>
<td>16.9</td>
<td>9.6</td>
<td>5.2</td>
<td>3.9</td>
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<tr>
<td>1.8V</td>
<td>36.1</td>
<td>29.3</td>
<td>25.1</td>
<td>20.0</td>
<td>15.8</td>
<td>9.2</td>
<td>5.1</td>
<td>3.9</td>
</tr>
</tbody>
</table>

Discharge Current vs Time

Discharge Characteristics @25 °C (77 °F)

Dimensions

- 100(3.94) x 94(3.70) x 151(5.94) mm (inch)

Terminal

Type: FO-01

Type: FO-02

Intepower Canada Ltd.

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