### Technical Specification

<table>
<thead>
<tr>
<th>Output</th>
<th>Nominal Voltage</th>
<th>12V</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nominal Capacity (10HR)</td>
<td>150Ah</td>
<td></td>
</tr>
</tbody>
</table>

**Terminal Type**
- Standard Terminal: F11

**Container Material**
- Standard Option: ABS
- Flame Retardant Option (FR): ABS (UL94:VO)

**Rated Capacity**
- (100HR 1.80V/cell, 25°C): 172 Ah/1.72A
- (20HR 1.80V/cell, 25°C): 160.8 Ah/8.04A
- (10HR 1.80V/cell, 25°C): 150 Ah/15.0A
- (5HR 1.75V/cell, 25°C): 131.6 Ah/26.3A
- (3HR 1.75V/cell, 25°C): 119.3 Ah/39.8A
- (1HR 1.60V/cell, 25°C): 96.9 Ah/96.9A

**Max Discharge Current**
- Approx 2.5mΩ

**Internal Resistance**
- Approx 2.5mΩ

**Discharge Characteristics**

<table>
<thead>
<tr>
<th>Operating Temp Range</th>
<th>Discharge: -15 ~ 50°C</th>
</tr>
</thead>
<tbody>
<tr>
<td>Storage: -15 ~ 40°C</td>
<td></td>
</tr>
</tbody>
</table>

**Nominal Operating Temp Range**
- 25 ± 3°C

**Cycle Use**
- Initial Charging Current less than 45A.
- Voltage 14.4V ~ 15.0V @ 25°C Temp. Coefficient -30mV/°C

**Standby Use**
- No limit on initial charging current.
- Voltage 13.5V ~ 13.8V @ 25°C Temp. Coefficient -20mV/°C

**Capacity Affected by Temperature**
- 40°C: 103%
- 25°C: 100%
- 0°C: 86%

**Design Floating Life at 20°C**
- 12 Years

### Self Discharge

**Ultracell® UC batteries** may be stored for up to 6 months at 25°C and then a refresh charge is required. For higher temperatures the time intervals will be shorter.

### Constant Current Discharge / Constant Power Discharge At 25°C (Amperes & Watts/Cell)

<table>
<thead>
<tr>
<th>A</th>
<th>W</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.85V/cell</td>
<td>219.6 184.8 161.5 116.2 92.3 74.9 46.5 36.3 29.4 23.9 20.8 17.0 14.2 7.97</td>
</tr>
<tr>
<td>1.80V/cell</td>
<td>206.6 173.2 150.9 107.3 83.3 60.8 40.9 32.9 26.3 22.3 18.0 15.0 10.0 4.48</td>
</tr>
<tr>
<td>1.75V/cell</td>
<td>194.6 161.4 138.2 94.2 71.4 52.7 39.8 32.1 26.3 22.3 18.0 15.0 10.0 4.54</td>
</tr>
<tr>
<td>1.70V/cell</td>
<td>182.6 149.4 126.2 82.2 63.7 47.2 35.1 27.7 23.9 19.9 16.9 13.9 9.87 4.33</td>
</tr>
<tr>
<td>1.65V/cell</td>
<td>170.6 137.4 114.2 70.2 52.7 36.1 24.9 18.5 15.0 11.5 9.50 7.50 5.00 2.38</td>
</tr>
<tr>
<td>1.60V/cell</td>
<td>158.6 125.4 102.2 58.2 42.6 27.2 15.1 10.6 8.12 6.62 5.12 3.62 2.72 1.38</td>
</tr>
</tbody>
</table>

A = Amperes  W = Watts
Discharge Characteristics

Temperature Effects in Relation to Battery Capacity

General Relation of Capacity vs. Storage Time

Supplementary charge required before use. Optional charging way as below:
1. Charged for above 3 days at limited current 0.25CA and constant voltage 2.25V/cell.
2. Charged for above 20 hours at limited current 0.25CA and constant voltage 2.25V/cell.
3. Charged for 8 ~ 10 hours at limited current 0.05 CA.

Cyclic Life in Relation to Depth of Discharge

Floating Life on Temperature

General Relation of Capacity vs. Storage Time (Notes)

A ) No supplementary charge required.
(Carryout supplementary charge before use if 100% capacity is required.)

B ) Supplementary charge required before use. Optional charging way as below:
1. Charged for above 3 days at limited current 0.25CA and constant voltage 2.25V/cell.
2. Charged for above 20 hours at limited current 0.25CA and constant voltage 2.25V/cell.
3. Charged for 8 ~ 10 hours at limited current 0.05 CA.

C ) Supplementary charge may often fail to recover the capacity.
The battery should never be left standing till this is reached.