Technical Specification

Output
Nominal Voltage 12V
Nominal Capacity (100HR) 250 Ah

Terminals
Standard Terminal F11

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

Rated Capacity
(100HR 1.80V/cell, 25°C) 250 Ah/2.5A
(20HR 1.80V/cell, 25°C) 210 Ah/10.5A
(10HR 1.80V/cell, 25°C) 200 Ah/20.0A
(SHR 1.75V/cell, 25°C) 175 Ah/35.0A
(H1R 1.60V/cell, 25°C) 118.1 Ah/118.1A

Max Discharge Current
2000A (5s)

Internal Resistance
Approx 3mΩ

Discharge Characteristics
Operating Temp Range
Discharge: -15 ~ 50°C
Charge: 0 ~ 40°C
Storage: -15 ~ 40°C

Nominal Operating Temp Range 25 ± 3°C
Cycle Use
Initial Charging Current less than 60A.
Voltage 14.1V ~ 14.4V @ 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® UFT 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)

A = Amperes  W = Watts

<table>
<thead>
<tr>
<th>F.V./TIME</th>
<th>10 min</th>
<th>15 min</th>
<th>20 min</th>
<th>30 min</th>
<th>45 min</th>
<th>60 min</th>
<th>2 hours</th>
<th>3 hours</th>
<th>4 hours</th>
<th>5 hours</th>
<th>6 hours</th>
<th>8 hours</th>
<th>10 hours</th>
<th>20 hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>W</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>1.85V/cell</td>
<td>287.5</td>
<td>536.8</td>
<td>256.2</td>
<td>491.0</td>
<td>431.8</td>
<td>357.7</td>
<td>185.7</td>
<td>97.3</td>
<td>63.3</td>
<td>47.7</td>
<td>38.0</td>
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<td>1.80V/cell</td>
<td>334.0</td>
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<td>280.0</td>
<td>565.0</td>
<td>474.8</td>
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<td>199.6</td>
<td>107.6</td>
<td>68.8</td>
<td>51.6</td>
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<td>333.1</td>
<td>618.1</td>
<td>517.4</td>
<td>401.8</td>
<td>214.7</td>
<td>115.7</td>
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<td>409.1</td>
<td>223.5</td>
<td>123.9</td>
<td>77.5</td>
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<td>534.0</td>
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<td>233.9</td>
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<td>96.9</td>
<td>75.5</td>
<td>59.0</td>
<td>49.2</td>
<td>40.8</td>
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Discharge Characteristics

Temperature Effects in Relation to Battery Capacity

Effect of Temperature on Long Term Float Life

Charging Characteristics