Specifications

**Rated Voltage**: 12V

**Nominal Capacity**: 160Ah (C100, 1.80V/cell)

**Dimension**:
- Length: 532mm (20.94in.)
- Width: 207mm (8.15in.)
- Container Height: 214mm (8.43in.)
- Total Height: 220mm (8.66in.)

**Approx Weight**: 59.3Kg (130.73 lbs)

**Terminal** M8

**Container Material**: ABS

**Rated Capacity (25°C)**:
- 160.0Ah (10hr, 16.0A, 1.80V/cell)
- 140.5Ah (5hr, 28.1A, 1.75V/cell)
- 120.9Ah (3hr, 40.3A, 1.75V/cell)
- 94.9Ah (1hr, 94.9A, 1.67V/cell)

**Max. Discharge Current (5s)**: 1280A

**Internal Resistance (25°C)**: Approx. 5.1mΩ

**Operating Temp. Range**:
- Discharge: -20°C~55°C (-4°F~131°F)
- Charge: 0°C~40°C (32°F~104°F)
- Storage: -20°C~50°C (-4°F~122°F)

**Nominal Operating Temp. Range**: 25°C (77°F)

**Max. Charging Current (25°C)**: 40.0A

**Charge voltage (25°C)**:
- Float: 13.5V
- Temp. Coefficient: -3mV/cell/°C
- Cycle (Equalization): 14.1~14.4V

**Effect of temp. to Capacity**:
- 40°C (104°F): 106%
- 25°C (77°F): 100%
- 0°C (32°F): 86%

**Self Discharge**: ≤3% per month at 25°C

---

**Constant Current Discharge (Amperes) at 25 °C (77°F)**

<table>
<thead>
<tr>
<th>F.V./Time</th>
<th>10min</th>
<th>15min</th>
<th>30min</th>
<th>1hr</th>
<th>2hr</th>
<th>3hr</th>
<th>5hr</th>
<th>8hr</th>
<th>10hr</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.85V/cell</td>
<td>154.4</td>
<td>136.2</td>
<td>101.8</td>
<td>74.4</td>
<td>47.2</td>
<td>36.0</td>
<td>25.8</td>
<td>18.1</td>
<td>15.3</td>
</tr>
<tr>
<td>1.80V/cell</td>
<td>185.7</td>
<td>157.3</td>
<td>114.2</td>
<td>81.6</td>
<td>51.0</td>
<td>38.6</td>
<td>27.0</td>
<td>18.9</td>
<td>16.0</td>
</tr>
<tr>
<td>1.75V/cell</td>
<td>213.0</td>
<td>175.8</td>
<td>122.9</td>
<td>86.9</td>
<td>53.6</td>
<td>40.3</td>
<td>28.1</td>
<td>19.4</td>
<td>16.3</td>
</tr>
<tr>
<td>1.70V/cell</td>
<td>232.6</td>
<td>190.9</td>
<td>131.5</td>
<td>91.8</td>
<td>55.5</td>
<td>41.9</td>
<td>28.8</td>
<td>19.7</td>
<td>16.5</td>
</tr>
<tr>
<td>1.67V/cell</td>
<td>254.3</td>
<td>204.8</td>
<td>137.6</td>
<td>94.9</td>
<td>57.4</td>
<td>43.4</td>
<td>29.4</td>
<td>20.0</td>
<td>16.8</td>
</tr>
<tr>
<td>1.60V/cell</td>
<td>271.4</td>
<td>216.6</td>
<td>142.7</td>
<td>97.5</td>
<td>59.4</td>
<td>44.3</td>
<td>30.1</td>
<td>20.3</td>
<td>17.1</td>
</tr>
</tbody>
</table>

**Constant Power Discharge (Watts/cell) at 25 °C (77°F)**

<table>
<thead>
<tr>
<th>F.V./Time</th>
<th>10min</th>
<th>15min</th>
<th>30min</th>
<th>1hr</th>
<th>2hr</th>
<th>3hr</th>
<th>5hr</th>
<th>8hr</th>
<th>10hr</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.85V/cell</td>
<td>254.1</td>
<td>233.6</td>
<td>194.2</td>
<td>144.8</td>
<td>92.2</td>
<td>70.4</td>
<td>50.7</td>
<td>35.8</td>
<td>30.6</td>
</tr>
<tr>
<td>1.80V/cell</td>
<td>307.2</td>
<td>278.4</td>
<td>218.1</td>
<td>158.1</td>
<td>99.4</td>
<td>75.2</td>
<td>53.1</td>
<td>37.4</td>
<td>31.8</td>
</tr>
<tr>
<td>1.75V/cell</td>
<td>357.1</td>
<td>307.2</td>
<td>232.5</td>
<td>167.4</td>
<td>104.0</td>
<td>78.7</td>
<td>55.0</td>
<td>38.4</td>
<td>32.5</td>
</tr>
<tr>
<td>1.70V/cell</td>
<td>393.6</td>
<td>330.9</td>
<td>246.6</td>
<td>176.0</td>
<td>107.2</td>
<td>81.3</td>
<td>56.3</td>
<td>39.0</td>
<td>32.8</td>
</tr>
<tr>
<td>1.67V/cell</td>
<td>414.7</td>
<td>344.3</td>
<td>255.4</td>
<td>180.8</td>
<td>110.2</td>
<td>83.8</td>
<td>57.4</td>
<td>39.5</td>
<td>33.3</td>
</tr>
<tr>
<td>1.60V/cell</td>
<td>425.6</td>
<td>351.4</td>
<td>262.2</td>
<td>185.3</td>
<td>113.4</td>
<td>85.3</td>
<td>58.6</td>
<td>40.2</td>
<td>33.8</td>
</tr>
</tbody>
</table>
**Applications**
- Telecommunications
- Radio and cellular telephone relay stations
- Emergency lighting systems
- Power stations, Conventional power stations, alternative power (solar, wind)
- Large UPS and computer back-up
- Railway signaling
- Maritime standby power on ships and ashore
- Process and control engineering
- Standby power
- Buoy lighting

**General Features**
- 18 years design life (20°C)
- Better recovery performance
- Wide working temperature range (-20~55°C)
- No electrolyte stratification provides longer service life
- High recombination efficient
- Build in copper core based in lead will carry large current
- Separator imported form AMER-SIL high porosity. PVC-SiO₂ and low resistance
- Pasted negative plate special grid design increase the active material availability large current discharge and charge ability
- Tubular type positive plate (polyester tube) prevent the active material from falling. Multi metal alloy pressed positive grid increase the anti corrosion ability and service life

**Standards**
- Compliance with IEC 60896, IEC 61427, DIN 40742 standards
- UL, CE Certified
- Manufactured in Leoch®IATF16949, OHSAS 18001, ISO 9001 and ISO 14001 certified production facilities

**OPzV Series-Tubular Gel**
12V 8OPzV160 (12V160Ah)

**Temperature effects in relation to battery capacity**

**Charge voltage vs ambient temperature curve**

**Cycle Life in Relation to DOD**

**General Relation of Capacity VS. Storage Time**

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