**Specifications**

- **Rated Voltage**: 12V
- **Nominal Capacity**: 120.0Ah (C10, 1.80V/cell)
- **Dimension**:
  - Length: 483mm (19.02in.)
  - Width: 170mm (6.69in.)
  - Container Height: 224.5mm (8.84in.)
  - Total Height: 238.5mm (9.39in.)
- **Approx Weight**: 45.7Kg (100.8 lbs)
- **Terminal**: M8
- **Container Material**: ABS
- **Rated Capacity (25°C)**:
  - 120.0 Ah: (10hr, 12.0A, 1.80V/cell)
  - 105.5 Ah: (5hr, 21.1A, 1.75V/cell)
  - 90.6 Ah: (3hr, 30.2A, 1.75V/cell)
  - 71.2 Ah: (1hr, 71.2A, 1.67V/cell)
- **Max. Discharge Current (5s)**: 960A
- **Internal Resistance (25°C)**: Approx. 5.2mΩ
- **Operating Temp. Range**: -20°C~55°C (-4°F~131°F)
- **Nominal Operating Temp. Range**: 25°C (77°F)
- **Max. Charging Current (25°C)**: 30.0A
- **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>1h</th>
<th>2h</th>
<th>3h</th>
<th>5h</th>
<th>8h</th>
<th>10h</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.85V/cell</td>
<td>115.8</td>
<td>102.1</td>
<td>76.3</td>
<td>55.8</td>
<td>35.4</td>
<td>27.0</td>
<td>19.3</td>
<td>13.6</td>
<td>11.5</td>
</tr>
<tr>
<td>1.80V/cell</td>
<td>139.2</td>
<td>118.0</td>
<td>85.7</td>
<td>61.2</td>
<td>38.3</td>
<td>28.9</td>
<td>20.3</td>
<td>14.2</td>
<td>12.0</td>
</tr>
<tr>
<td>1.75V/cell</td>
<td>159.7</td>
<td>131.8</td>
<td>92.2</td>
<td>65.2</td>
<td>40.2</td>
<td>30.2</td>
<td>21.1</td>
<td>14.5</td>
<td>12.2</td>
</tr>
<tr>
<td>1.70V/cell</td>
<td>174.4</td>
<td>143.2</td>
<td>98.6</td>
<td>68.9</td>
<td>41.6</td>
<td>31.4</td>
<td>21.6</td>
<td>14.8</td>
<td>12.4</td>
</tr>
<tr>
<td>1.67V/cell</td>
<td>190.7</td>
<td>153.6</td>
<td>103.2</td>
<td>71.2</td>
<td>43.1</td>
<td>32.5</td>
<td>22.1</td>
<td>15.0</td>
<td>12.6</td>
</tr>
<tr>
<td>1.60V/cell</td>
<td>203.6</td>
<td>162.4</td>
<td>107.0</td>
<td>73.1</td>
<td>44.5</td>
<td>33.2</td>
<td>22.6</td>
<td>15.2</td>
<td>12.8</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>1h</th>
<th>2h</th>
<th>3h</th>
<th>5h</th>
<th>8h</th>
<th>10h</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.85V/cell</td>
<td>190.6</td>
<td>175.2</td>
<td>145.7</td>
<td>108.6</td>
<td>69.1</td>
<td>52.8</td>
<td>38.0</td>
<td>26.9</td>
<td>22.9</td>
</tr>
<tr>
<td>1.80V/cell</td>
<td>230.4</td>
<td>208.8</td>
<td>163.6</td>
<td>118.6</td>
<td>74.5</td>
<td>56.4</td>
<td>39.8</td>
<td>28.1</td>
<td>23.9</td>
</tr>
<tr>
<td>1.75V/cell</td>
<td>267.8</td>
<td>230.4</td>
<td>174.4</td>
<td>125.5</td>
<td>78.0</td>
<td>59.0</td>
<td>41.3</td>
<td>28.8</td>
<td>24.4</td>
</tr>
<tr>
<td>1.70V/cell</td>
<td>295.2</td>
<td>248.2</td>
<td>184.9</td>
<td>132.0</td>
<td>80.4</td>
<td>61.0</td>
<td>42.2</td>
<td>29.3</td>
<td>24.6</td>
</tr>
<tr>
<td>1.67V/cell</td>
<td>311.0</td>
<td>258.2</td>
<td>191.5</td>
<td>135.6</td>
<td>82.7</td>
<td>62.9</td>
<td>43.1</td>
<td>29.6</td>
<td>25.0</td>
</tr>
<tr>
<td>1.60V/cell</td>
<td>319.2</td>
<td>263.5</td>
<td>196.7</td>
<td>139.0</td>
<td>85.1</td>
<td>64.0</td>
<td>43.9</td>
<td>30.1</td>
<td>25.3</td>
</tr>
</tbody>
</table>
OPzV Series-Tubular Gel
12V 6OPzV120(12V120Ah)

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
- 16 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
- Tubuler 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

Charge voltage vs ambient temperature curve
- Equalizing charge voltage
  for max. 16 hours
- Float voltage +/- 1%

Temperature effects in relation to battery capacity

Cycle Life in Relation to DOD

General Relation of Capacity VS. Storage Time

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