**Specifications**

**Rated Voltage** 12V

**Nominal Capacity** 120Ah (C100, 1.80V/cell)

**Length** 551mm (21.69 in.)

**Width** 110mm (4.33 in.)

**Container Height** 274mm (10.79 in.)

**Total Height** 287mm (11.30 in.)

**Approx Weight** 42.3Kg (93.26 lbs)

**Terminal** M6

**Container Material** ABS

**Rated Capacity (25°C)**

<table>
<thead>
<tr>
<th>Capacity (Ah)</th>
<th>Temp. Coefficient</th>
<th>Cycle (Equalization)</th>
</tr>
</thead>
<tbody>
<tr>
<td>120.0 Ah</td>
<td>13.5V</td>
<td>14.1~14.4V</td>
</tr>
<tr>
<td>105.5 Ah</td>
<td></td>
<td></td>
</tr>
<tr>
<td>90.9 Ah</td>
<td></td>
<td></td>
</tr>
<tr>
<td>71.2 Ah</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Max. Discharge Current (5s)** 1200A

**Internal Resistance (25°C)** Approx. 7.0mΩ

**Operating Temp. Range**

-20°C~55°C (-4°F~131°F)

0°C~40°C (32°F~104°F)

-20°C~50°C (-4°F~122°F)

**Nominal Operating Temp. Range** 25x3°C (77x5°F)

**Max Charging Current (25°C)** 36.0A

**Charge voltage (25°C)**

- 1.85V/cell: 147.0V
- 1.80V/cell: 164.0V
- 1.75V/cell: 174.0V
- 1.70V/cell: 185.0V
- 1.67V/cell: 192.0V
- 1.60V/cell: 197.0V

**Effect of Temp. To Capacity**

- 0°C (32°F): 100%
- 25°C (77°F): 100%
- 40°C (104°F): 90%

**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>30min</th>
<th>45min</th>
<th>1h</th>
<th>2h</th>
<th>3h</th>
<th>4h</th>
<th>5h</th>
<th>8h</th>
<th>10h</th>
<th>20h</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.85V/cell</td>
<td>76.3</td>
<td>65.8</td>
<td>55.8</td>
<td>35.4</td>
<td>27.0</td>
<td>22.3</td>
<td>19.3</td>
<td>13.5</td>
<td>11.5</td>
<td>6.15</td>
</tr>
<tr>
<td>1.80V/cell</td>
<td>85.7</td>
<td>71.8</td>
<td>61.2</td>
<td>38.3</td>
<td>28.9</td>
<td>23.7</td>
<td>20.3</td>
<td>14.2</td>
<td>12.0</td>
<td>6.42</td>
</tr>
<tr>
<td>1.75V/cell</td>
<td>92.2</td>
<td>77.4</td>
<td>65.2</td>
<td>40.2</td>
<td>30.3</td>
<td>24.8</td>
<td>21.1</td>
<td>14.6</td>
<td>12.2</td>
<td>6.55</td>
</tr>
<tr>
<td>1.70V/cell</td>
<td>98.6</td>
<td>81.1</td>
<td>68.9</td>
<td>41.6</td>
<td>31.4</td>
<td>25.6</td>
<td>21.6</td>
<td>14.8</td>
<td>12.4</td>
<td>6.63</td>
</tr>
<tr>
<td>1.67V/cell</td>
<td>103.2</td>
<td>84.5</td>
<td>71.2</td>
<td>43.1</td>
<td>32.5</td>
<td>26.3</td>
<td>22.1</td>
<td>15.0</td>
<td>12.6</td>
<td>6.71</td>
</tr>
<tr>
<td>1.60V/cell</td>
<td>107.0</td>
<td>86.9</td>
<td>73.3</td>
<td>44.5</td>
<td>33.2</td>
<td>26.9</td>
<td>22.6</td>
<td>15.3</td>
<td>12.8</td>
<td>6.78</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>F.V/Time</th>
<th>30min</th>
<th>45min</th>
<th>1h</th>
<th>2h</th>
<th>3h</th>
<th>4h</th>
<th>5h</th>
<th>8h</th>
<th>10h</th>
<th>20h</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.85V/cell</td>
<td>147.0</td>
<td>128.0</td>
<td>109.0</td>
<td>69.2</td>
<td>52.8</td>
<td>43.9</td>
<td>38.1</td>
<td>26.9</td>
<td>22.9</td>
<td>12.3</td>
</tr>
<tr>
<td>1.80V/cell</td>
<td>164.0</td>
<td>138.0</td>
<td>119.0</td>
<td>74.5</td>
<td>56.4</td>
<td>46.4</td>
<td>39.9</td>
<td>28.1</td>
<td>23.9</td>
<td>12.8</td>
</tr>
<tr>
<td>1.75V/cell</td>
<td>174.0</td>
<td>148.0</td>
<td>126.0</td>
<td>77.9</td>
<td>59.0</td>
<td>48.4</td>
<td>41.3</td>
<td>28.8</td>
<td>24.3</td>
<td>13.0</td>
</tr>
<tr>
<td>1.70V/cell</td>
<td>185.0</td>
<td>154.0</td>
<td>132.0</td>
<td>80.4</td>
<td>61.0</td>
<td>49.9</td>
<td>42.3</td>
<td>29.3</td>
<td>24.6</td>
<td>13.2</td>
</tr>
<tr>
<td>1.67V/cell</td>
<td>192.0</td>
<td>159.0</td>
<td>136.0</td>
<td>82.7</td>
<td>62.9</td>
<td>51.0</td>
<td>43.1</td>
<td>29.6</td>
<td>25.0</td>
<td>13.3</td>
</tr>
<tr>
<td>1.60V/cell</td>
<td>197.0</td>
<td>163.0</td>
<td>139.0</td>
<td>85.1</td>
<td>64.0</td>
<td>52.0</td>
<td>43.9</td>
<td>30.1</td>
<td>25.3</td>
<td>13.5</td>
</tr>
</tbody>
</table>
OPzV Series-Tubular Gel
12V 3OPzV120FT(12V120Ah)

Applications
- Telecommunications
- Radio and cellular telephone relay stations
- Emergency lighting systems
- Power stations, Conventional power stations, alternative pwnt(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

Charge voltage vs ambient temperature curve

Temperature effects in relation to battery capacity

Cycle Life in Relation to DOD

General Relation of Capacity VS. Storage Time

Sales Offices Worldwide

China Sales Office
5th Floor, Xinxiaohu Bildg., Nanhai Blvd., Nanshan, Shenzhen, China. 518052
Tel: +86-755-86030665 (100 lines)
Fax: +86-755-26067269
E-mail: export@leoch.com

North America Sales Office
5th Floor, Xinbaohui Bldg., Nanhai Blvd, Foothill Ranch, CA 92610, USA
Tel: +66-755-86030665 (100 lines)
Fax: +949-588-5966
E-mail: sales@leoch.us

HongKong Sales Office
Workshop C, 13/F, TML Tower, No. 3 Ho Shing Road, Tsuen Wan, New Territories, Hong Kong
Tel: +852 35786666
Fax: +852 690125
E-mail: sales.hk@leoch.com

UK Sales Office
98 Wheatstone Court, Waterwells, Business Park, Gloucester, GL2 2AQ, UK United Kingdom
Tel: +44(0) 1452 729428 / 1452 729696
Fax: +44 1452 690125
E-mail: Sales.Europe@leoch.com

Singapore Sales Office
No. 1 Tech Park Crescent, Singapore 638131
Tel: +65 68636078
Fax: +65 6863 6079
Email: sales.sg@Leoch.com

EMEA Sales Office
1 Deligiorgi St., 121 31 Athens, Greece
Tel: +30 210 5760318 (2 lines)
E-mail: support_EMEA@leoch.com

Australia Sales Office
2/29 Tarrington Place, Smithfield. NSW 2164
Australia
Tel: +61 2 9756 0950
Fax: +61 2 9756 0950
E-mail: sales.au@leoch.com

India Sales Office
Shed no.A-53(b), 2nd Stage of Peenya Industrial Area, Bangalore North Taluk, Bangalore-560055, India
Tel: +91-80-23440018/23440019
Fax: +91-80-23440017
E-mail: indiasales@leoch.com