## Specifications

### Rated Voltage
2V

### Nominal Capacity
800Ah (C<sub>10</sub>, 1.80V/cell)

### Dimension
- **Length:** 191mm (7.52 in.)
- **Width:** 210mm (8.27 in.)
- **Container Height:** 646mm (25.43 in.)
- **Total Height:** 681mm (26.81 in.)

### Approx. Weight
65.1Kg (143.52 lbs)

### Container Material
ABS

### Rated Capacity (25°C)
- 800.0 Ah (10hr, 80.0A, 1.80V/cell)
- 697.5 Ah (5hr, 139.5A, 1.75V/cell)
- 612.0 Ah (3hr, 204.0A, 1.75V/cell)
- 446.0 Ah (1hr, 446.0A, 1.65V/cell)

### Max. Discharge Current (5s)
6400A

### Internal Resistance (25°C)
Approx. 0.50mΩ

### 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
25x3°C (77x5°F)

### Max. Charging Current (25°C)
200.0A

### Charge Voltage (25°C)
- Float: 2.25V
- Temp. Coefficient: -3mV/cell/°C
- Cycle (Equalization): 2.35~2.40V

### 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>545.0</td>
<td>518.0</td>
<td>446.0</td>
<td>356.0</td>
<td>236.0</td>
<td>185.0</td>
<td>127.0</td>
<td>89.0</td>
<td>74.9</td>
</tr>
<tr>
<td>1.80V/cell</td>
<td>671.0</td>
<td>627.0</td>
<td>520.0</td>
<td>401.0</td>
<td>259.0</td>
<td>201.5</td>
<td>136.8</td>
<td>95.2</td>
<td>80.0</td>
</tr>
<tr>
<td>1.75V/cell</td>
<td>794.0</td>
<td>702.0</td>
<td>554.0</td>
<td>418.0</td>
<td>267.0</td>
<td>204.0</td>
<td>139.5</td>
<td>96.8</td>
<td>81.3</td>
</tr>
<tr>
<td>1.70V/cell</td>
<td>891.0</td>
<td>768.0</td>
<td>587.0</td>
<td>434.0</td>
<td>273.0</td>
<td>208.0</td>
<td>141.6</td>
<td>98.0</td>
<td>82.2</td>
</tr>
<tr>
<td>1.65V/cell</td>
<td>956.0</td>
<td>809.0</td>
<td>610.0</td>
<td>446.0</td>
<td>279.0</td>
<td>212.0</td>
<td>143.1</td>
<td>99.2</td>
<td>83.0</td>
</tr>
<tr>
<td>1.60V/cell</td>
<td>1001.0</td>
<td>838.0</td>
<td>626.0</td>
<td>454.0</td>
<td>283.0</td>
<td>216.0</td>
<td>145.2</td>
<td>100.2</td>
<td>83.6</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>1014.0</td>
<td>973.0</td>
<td>853.0</td>
<td>689.0</td>
<td>459.0</td>
<td>360.9</td>
<td>249.0</td>
<td>176.4</td>
<td>149.0</td>
</tr>
<tr>
<td>1.80V/cell</td>
<td>1226.0</td>
<td>1162.0</td>
<td>984.0</td>
<td>771.0</td>
<td>502.0</td>
<td>391.9</td>
<td>268.5</td>
<td>188.4</td>
<td>159.0</td>
</tr>
<tr>
<td>1.75V/cell</td>
<td>1425.0</td>
<td>1282.0</td>
<td>1038.0</td>
<td>798.0</td>
<td>513.0</td>
<td>395.9</td>
<td>272.9</td>
<td>191.4</td>
<td>161.0</td>
</tr>
<tr>
<td>1.70V/cell</td>
<td>1571.0</td>
<td>1379.0</td>
<td>1088.0</td>
<td>823.0</td>
<td>524.0</td>
<td>401.9</td>
<td>276.1</td>
<td>193.4</td>
<td>163.0</td>
</tr>
<tr>
<td>1.65V/cell</td>
<td>1657.0</td>
<td>1435.0</td>
<td>1120.0</td>
<td>841.0</td>
<td>532.0</td>
<td>407.9</td>
<td>278.1</td>
<td>195.4</td>
<td>164.0</td>
</tr>
<tr>
<td>1.60V/cell</td>
<td>1701.0</td>
<td>1464.0</td>
<td>1137.0</td>
<td>850.0</td>
<td>536.0</td>
<td>412.8</td>
<td>280.3</td>
<td>197.8</td>
<td>165.0</td>
</tr>
</tbody>
</table>
**OPzV Series-Tubular Gel**

**8 OPzV800(2V800Ah)**

**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**
- 20 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 from AMER-SIL high porosity, PVC-SiO₂ and low resistance
- Past 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, Xinbaohui Bldg., Nanhai Blvd., Nanshan, Shenzhen, China. 518052
Tel: +86-755-86030065 (100 lines)
Fax: +86-755-26067269
E-mail: export@leoch.com

**Hong Kong Sales Office**
Workshop C, 13/F, TML Tower, No. 3 Ho Shing Road, Tsuen Wan, New Territories, Hong Kong
Tel: +852 35786666
Fax: +852 1452 600125
E-mail: sales.hk@leoch.com

**North America Sales Office**
19751 Descartes
Foothill Ranch, CA 92610, USA
Tel: 949-588-5853
Fax: 949-588-5986
E-mail: sales@leoch.us

**UK Sales Office**
98 Wheatstone Court, Waterwells, Business Park, Gloucester, GL2-2AQ, UK United Kingdom
Tel: +44(0) 1452 729428 / 1452 729896
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: 02 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

**Http://www.leoch.com**
**Http://www.leoch.us**

© 2019 LEOCH. All rights reserved.
Trademarks and logos are the property of LEOCH and its affiliates unless otherwise noted.
Subject to revisions without prior notice.
Publication No.: LB-8 OPzV800-PD-EN-V1.1-201906