OPzV Series-Tubular Gel
20 OPzV2500(2V2500Ah)

Specifications

Rated Voltage 2V
Nominal Capacity 2500Ah (C100, 1.80V/cell)

Dimension
- Length 487mm(19.17 in.)
- Width 212mm(8.34 in.)
- Container Height 772mm(30.39 in.)
- Total Height 807mm(31.77 in.)

Approx Weight 196.0Kg (432.11 lbs)
Terminal M8
Container Material ABS

Rated Capacity (25°C)
- 2500.0 Ah (10hr,250.0A,1.80V/cell)
- 2180.5 Ah (8hr,436.1A,1.75V/cell)
- 1935.6 Ah (3hr,645.2A,1.70V/cell)
- 1394.8 Ah (1hr,1394.8A,1.67V/cell)

Max. Discharge Current(5s) 20000A
Internal Resistance(25°C) Approx.0.25mΩ

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 (77±5°F)
Max. Charging Current(25°C) 625.0A

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>10 min</th>
<th>15 min</th>
<th>30 min</th>
<th>1 h</th>
<th>2 h</th>
<th>3 h</th>
<th>5 h</th>
<th>8 h</th>
<th>10 h</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.85V/cell</td>
<td>1459.0</td>
<td>1424.0</td>
<td>1302.0</td>
<td>1117.3</td>
<td>755.5</td>
<td>580.0</td>
<td>396.8</td>
<td>278.1</td>
<td>234.3</td>
</tr>
<tr>
<td>1.80V/cell</td>
<td>1795.0</td>
<td>1723.0</td>
<td>1517.0</td>
<td>1252.5</td>
<td>827.5</td>
<td>630.8</td>
<td>427.5</td>
<td>297.5</td>
<td>250.0</td>
</tr>
<tr>
<td>1.75V/cell</td>
<td>2123.0</td>
<td>1929.0</td>
<td>1617.0</td>
<td>1302.3</td>
<td>856.3</td>
<td>645.2</td>
<td>436.1</td>
<td>302.5</td>
<td>254.3</td>
</tr>
<tr>
<td>1.70V/cell</td>
<td>2383.0</td>
<td>2105.0</td>
<td>1711.0</td>
<td>1359.2</td>
<td>877.9</td>
<td>658.0</td>
<td>442.5</td>
<td>306.8</td>
<td>257.1</td>
</tr>
<tr>
<td>1.67V/cell</td>
<td>2559.0</td>
<td>2222.0</td>
<td>1780.0</td>
<td>1394.8</td>
<td>892.3</td>
<td>670.2</td>
<td>449.7</td>
<td>310.4</td>
<td>259.3</td>
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<tr>
<td>1.60V/cell</td>
<td>2677.0</td>
<td>2301.0</td>
<td>1826.0</td>
<td>1416.2</td>
<td>906.7</td>
<td>678.1</td>
<td>454.0</td>
<td>312.6</td>
<td>261.4</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>F.V/Time</th>
<th>10 min</th>
<th>15 min</th>
<th>30 min</th>
<th>1 h</th>
<th>2 h</th>
<th>3 h</th>
<th>5 h</th>
<th>8 h</th>
<th>10 h</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.85V/cell</td>
<td>2714.0</td>
<td>2675.0</td>
<td>2487.0</td>
<td>2156.3</td>
<td>1467.9</td>
<td>1131.3</td>
<td>779.2</td>
<td>551.2</td>
<td>465.7</td>
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<tr>
<td>1.80V/cell</td>
<td>3280.0</td>
<td>3193.0</td>
<td>2870.0</td>
<td>2412.5</td>
<td>1604.6</td>
<td>1224.4</td>
<td>836.4</td>
<td>589.3</td>
<td>496.4</td>
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<tr>
<td>1.75V/cell</td>
<td>3814.0</td>
<td>3523.0</td>
<td>3028.0</td>
<td>2490.8</td>
<td>1640.6</td>
<td>1245.9</td>
<td>850.7</td>
<td>597.9</td>
<td>503.6</td>
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<tr>
<td>1.70V/cell</td>
<td>4204.0</td>
<td>3790.0</td>
<td>3172.0</td>
<td>2576.2</td>
<td>1676.6</td>
<td>1267.4</td>
<td>865.0</td>
<td>604.3</td>
<td>508.6</td>
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<tr>
<td>1.67V/cell</td>
<td>4434.0</td>
<td>3942.0</td>
<td>3267.0</td>
<td>2626.0</td>
<td>1705.4</td>
<td>1288.9</td>
<td>872.2</td>
<td>610.1</td>
<td>512.9</td>
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<tr>
<td>1.60V/cell</td>
<td>4550.0</td>
<td>4023.0</td>
<td>3316.0</td>
<td>2654.4</td>
<td>1719.8</td>
<td>1296.0</td>
<td>879.3</td>
<td>613.0</td>
<td>515.7</td>
</tr>
</tbody>
</table>
OPzV Series-Tubular Gel
20 OPzV2500(2V2500Ah)

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
- 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

Temperature effects in relation to battery capacity

Cycle Life in Relation to DOD

General Relation of Capacity VS. Storage Time

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