Cyclon Cells and Monoblocs

The Cyclon cells and monoblocs offer versatility of using 2 Volt building blocks to satisfy standard industrial and standby applications through to the most demanding requirements, where extreme performance in harsh environments is necessary. DMS technologies can also provide a custom build solution for you from product selection, through to design and finally to manufacture, using Cyclon batteries.

Main Benefits

Exceptional High Rate performance (up to 26C)

Operating temperature range:
Cells: -65°C to +80°C
Monoblocs: -40°C to +40°C

High shock and vibration resistance

Cycle Life - up to 3000 cycles at 30% DOD

Float Life:
Cells- 15 years at 20°C
Monoblocs - 10 years at 20°C

Storage Life greater than 2 years at 25°C, from full state of charge

Recharge to 95% capacity in under 1 hour

Typical Applications

Telecommunications - Railways - Industrial - Offshore - Utilities - Medical - Garden Equipment - Switch Tripping

Technical Specifications for 2Volt Single Cells at 25°C
DMS Part Number Cell Type Volts Nominal (Ah)
Capacity (10hr rate to 1.67VPC) Dimensions mm Weight kg Tabs mm
Diameter Height Height over tabs
9810-0004 D cell (2.5Ah) 2 2.5 34 61 68 0.2 4.75 x 0.64
9860-0004 Tall D cell (4.5Ah) 2 4.5 34 96 103 0.3 4.74 x 0.64
9800-0004 X cell (5.0Ah) 2 5.0 44 73 82 0.4 6.35 x 0.64
9850-0004 E cell (8Ah) 2 8.0 44 100 109 0.6 6.35 x 0.64
9840-0004 J cell (12.5Ah) 2 12.5 52 123 136 0.8 7.92 x 0.81
9820-0004 BC cell (25Ah) 2 25.0 65 159 174 1.7 M8+ M6 -studs
### Discharge Characteristics

<table>
<thead>
<tr>
<th>DMS Part Number</th>
<th>Cyclon Type</th>
<th>Pulse Amps</th>
<th>Continuous Amps</th>
</tr>
</thead>
<tbody>
<tr>
<td>9810-0004</td>
<td>D Single Cell (2V, 2.5Ah)</td>
<td>200</td>
<td>65</td>
</tr>
<tr>
<td>9819-0012</td>
<td>D Monobloc (6V, 2.5Ah)</td>
<td>200</td>
<td>50</td>
</tr>
<tr>
<td>9860-0004</td>
<td>TD Single Cell (2V, 4.5Ah)</td>
<td>200</td>
<td>65</td>
</tr>
<tr>
<td>9800-0004</td>
<td>X Single Cell (2V, 5.0Ah)</td>
<td>285</td>
<td>65</td>
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<tr>
<td>9809-0012</td>
<td>X Monobloc (6V, 5.0Ah)</td>
<td>285</td>
<td>50</td>
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<tr>
<td>9850-0004</td>
<td>E Single Cell (2V, 8.0Ah)</td>
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<td>65</td>
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<tr>
<td>9859-0012</td>
<td>E Monobloc (6V, 8.0Ah)</td>
<td>330</td>
<td>50</td>
</tr>
<tr>
<td>9840-0004</td>
<td>J Single Cell (2V, 12.5Ah)</td>
<td>400</td>
<td>65</td>
</tr>
<tr>
<td>9820-0004</td>
<td>BC Single Cell (2V, 25.0 Ah)</td>
<td>665</td>
<td>250</td>
</tr>
</tbody>
</table>

### Cyclon Monoblocs and Battery Packs

Standard Cyclon Monoblocs and Battery Packs (complete with leads and tags) are available in 4, 6, 8 and 12 Volt configurations. Please refer to the Cyclon Manual for further information. Other sizes are available dependant on specification requirements.

**Engineering Tip:**
When sizing your battery requirements, consider the exceptional power/weight ratio of Cyclon which is significantly better than comparable sealed lead acid and nickel cadmium batteries.