

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

DMS Part Number Cyclon Type Pulse Amps Continuous Amps

9810-0004 D Single Cell (2V, 2.5Ah) 200 65

9819-0012 D Monobloc (6V, 2.5Ah) 200 50

9860-0004 TD Single Cell (2V, 4.5Ah) 200 65

9800-0004 X Single Cell (2V, 5.0Ah) 285 65

9809-0012 X Monobloc (6V, 5.0Ah) 285 50

9850-0004 E Single Cell (2V, 8.0Ah) 330 65

9859-0012 E Monobloc (6V, 8.0Ah) 330 50

9840-0004 J Single Cell (2V, 12.5Ah) 400 65

9820-0004 BC Single Cell (2V, 25.0 Ah) 665 250

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.