

Single Cell Standard Battery Descriptions



CYCLON® STANDARD BATTERY DESCRIPTIONS

Cyclon cells are ideal for small ampere-hour applications up to 25Ah. The sealed-lead construction uses a starved-electrolyte system and a patented grid-alloy providing numerous advantages.

Standard batteries are offered based on combinations of Cyclon cells and are available in 2, 6 and 12 volt configurations with capacities ranging from 2.5Ah to 25Ah.

Battery Packages

Rigid plastic cases or shrink wrap packaging are available.

Rigid Plastic

Cases are available for most designs in either flame-retardant ABS Cyclac (General Electric) material, meeting UL94VO flammability rating, or Styrene (available only in 2X3 D and X battery configurations). Some cases have mounting holes. Rigid plastic cases are recommended for applications in which the battery must withstand vibration, movement or extreme weather conditions.

Shrink Wrap

Shrink wrap packaging is less expensive and smaller in size and weight. A plastic extrusion insulates the battery top and keeps the cells in line. A heavy duty shrink sleeve holds the cells firmly in place. Shrink wrap packaging is recommended for applications in which the battery remains stationary.

Battery Terminations for Single Cell and Monoblocs

Tab / Stud

Cell size	Dimensions
D	.187" X .025"
X	.250" X .025"

Tab Adapters (D, Tall D, X, and E)

Available to convert .187" tabs to .250" tabs, 0.032" thick, and vice versa.

Connection Terminations

A wide variety of terminations are offered. Please specify or contact your EnerSys Sales Representative for recommendations.

Fusible Links

Specify your requirement.

Lead Wires

Stranded copper wire with insulation meeting UL1015 specifications (Red +, Black -). Standard leads extend 9 inches outside the battery pack. Ends are stripped and dipped in wax, which must be removed before use.

Standard wire gauges:

- D batteries 18AWG, UL1015
- X batteries 16AWG, UL1015

Cyclon 2V single cell:

				DIMENSIONS				
Products (capacity)	Part Number	Internal res. of fully charged cell milliohm @ 25°C	Nominal short circuit current for charged cell	Diameter in. (mm)	Height in. (mm)	Height with terminals in. (mm)	Weight oz. (gm)	Tabs in. (mm)
D cell (2.5Ah)	970253	5.0	400A	1.35 (34.3)	2.41 (61.2)	2.68 (68.1)	6.28 (178.0)	.187 x .025 (4.75 x 0.64)
X cell (5.0Ah)	970254	3.5	570A	1.75 (44.5)	2.87 (72.9)	3.21 (81.5)	12.77 (362.0)	.250 x .025 (6.35 x 0.64)

All dimensions, excluding weights and tabs, are maximum.

CYCLON® Single Cell Mechanical Specifications (E, G, H, & J - Maximum)											
Products	Dimensions in. (mm)										
	A	B	C	D	E	F	G	H	I	J	Weight oz. (gm)
D cell	0.27 (6.9)	0.51 (13.0)	.187 (4.75)	22°	0.27 (6.9)	0.025 (0.64)	2.41 (61.2)	0.05 (1.3)	0.13 (3.3)	1.35 (34.3)	6.28 (178.0)
X cell	0.29 (7.4)	0.61 (15.5)	0.250 (6.35)	22°	0.34 (8.6)	0.025 (0.64)	2.87 (72.9)	0.06 (1.5)	0.14 (3.6)	1.75 (44.5)	12.77 (362.0)

