



# Cyclon

The building blocs providing optimum reliability for customised and specialist battery applications

- Wide temperature operating range (-65°C to +80°C)
- Extremely low self-discharge rate providing up to 2 years shelf-life
- Pure lead design offers highest recharge efficiency
- Very high cycle life delivers up to 300 cycles (100% Depth of Discharge)
- Greatest high-rate power density, per unit weight
- Up to 10-year design life at 25°C\*
- Proven in-the-field technology and UL recognised components

\*C<sub>5</sub> rate, to 80% of rated capacity



## CYCLON® Battery Product Family (All capacities at 10 hr. rate 25°C to 1.67Vpc)

### CYCLON® Battery 2V Single Cell:

| Products | Capacity | Internal res. of fully charged cell mΩ @ 25°C | Nominal short circuit current for charged cell | DIMENSIONS  |           |                          |          |           |
|----------|----------|---|--|-------------|-----------|--------------------------|----------|-----------|
|          |          |   |  | Diameter mm | Height mm | Height with terminals mm | Weight g | Tabs mm   |
| D cell   | 2.5Ah    | 5.0   | 400A   | 34.3        | 61.2      | 68.1                     | 178.0    | 4.75x0.64 |
| DT cell  | 4.5Ah    | 5.0   | 400A   | 34.3        | 96.0      | 102.9                    | 274.4    | 4.75x0.64 |
| X cell   | 5.0Ah    | 3.5   | 570A   | 44.5        | 72.9      | 81.5                     | 362.0    | 6.35x0.64 |
| E cell   | 8.0Ah    | 3.0   | 665A   | 44.5        | 100.1     | 108.7                    | 489.9    | 6.35x0.64 |
| J cell   | 12.0Ah   | 2.5   | 800A   | 51.8        | 123.2     | 135.6                    | 839.2    | 7.92x0.81 |

### CYCLON® Battery 4V Monoblocs:

| Products | Capacity | Internal res. of fully charged Monobloc mΩ @ 25°C | Nominal short circuit current for charged cell | DIMENSIONS  |           |                          |          |           |
|----------|----------|---|--|-------------|-----------|--------------------------|----------|-----------|
|          |          |   |  | Diameter mm | Height mm | Height with terminals mm | Weight g | Tabs mm   |
| D cell   | 2.5Ah    | 10.0  | 400A   | 79.5        | 46.0      | 69.9                     | .36      | 4.75x0.64 |
| X cell   | 5.0Ah    | 7.0   | 570A   | 96.5        | 53.8      | 76.7                     | .74      | 6.35x0.64 |
| E cell   | 8.0Ah    | 6.0   | 665A   | 96.8        | 54.1      | 101.6                    | .96      | 6.35x0.64 |

### CYCLON® Battery 6V Monoblocs:

| Products | Capacity | Internal res. of fully charged Monobloc mΩ @ 25°C | Nominal short circuit current for charged cell | DIMENSIONS |          |           |          |           |
|----------|----------|---|--|------------|----------|-----------|----------|-----------|
|          |          |   |  | Length mm  | Width mm | Height mm | Weight k | Tabs mm   |
| D cell   | 2.5Ah    | 15.0  | 400A   | 113.8      | 46.0     | 69.9      | .52      | 4.75x0.64 |
| X cell   | 5.0Ah    | 10.0  | 570A   | 139.2      | 53.8     | 76.7      | .98      | 6.35x0.64 |
| E cell   | 8.0Ah    | 8.0   | 665A   | 139.2      | 54.1     | 101.6     | 1.43     | 6.35x0.64 |

For the entire range of products available, please see the CYCLON® Selection Guide that is available at [www.enersys.com](http://www.enersys.com)

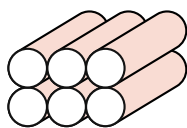
### Alternative battery configurations

Standard battery configurations are rectangular in overall shape.

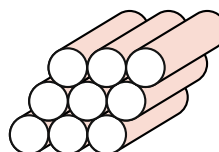
A sample of other possible configurations are illustrated.

These can be held together with tape (offering the lowest cost and minimum electrical and mechanical protection) or by shrink wrapping.

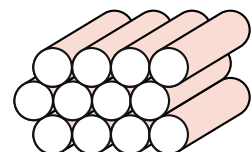
The CYCLON® battery Single Cell can be custom configured in virtually an infinite number of designs.



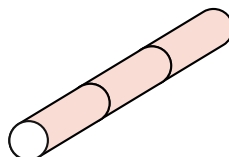
Rectangular



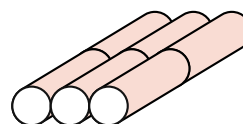
Rhomboid



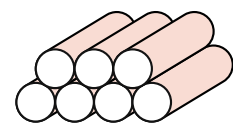
Nested



Tubular



Flat Pack



Trapezoid



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