



**4V & 6V Constant current discharge/amps to 1.67 vpc @ 25°C:**

| Products  | DURATION |         |        |         |         |         |       |       |        |        |
|-----------|----------|---------|--------|---------|---------|---------|-------|-------|--------|--------|
|           | 5 min.   | 10 min. | 15min. | 30 min. | 60 min. | 90 min. | 5 hr. | 8 hr. | 10 hr. | 20 hr. |
| D (2.5Ah) | 14.3     | 8.1     | 5.9    | 3.4     | 1.9     | 1.4     | .48   | .32   | .26    | .13    |
| X (5.0Ah) | 28.9     | 18.1    | 13.5   | 7.1     | 4.0     | 2.8     | 1.0   | .61   | .52    | .26    |
| E (8.0Ah) | 41.7     | 26.4    | 19.0   | 11.0    | 6.2     | 4.4     | 1.6   | 1.0   | .81    | .42    |

**4V & 6V Constant power discharge/watts per cell to 1.67 vpc @ 25°C:**

| Products  | DURATION |         |        |         |         |         |       |       |        |        |
|-----------|----------|---------|--------|---------|---------|---------|-------|-------|--------|--------|
|           | 5 min.   | 10 min. | 15min. | 30 min. | 60 min. | 90 min. | 5 hr. | 8 hr. | 10 hr. | 20 hr. |
| D (2.5Ah) | 25.3     | 15.9    | 11.7   | 6.8     | 3.8     | 2.7     | .93   | .60   | .49    | .25    |
| X (5.0Ah) | 48.8     | 32.3    | 24.2   | 13.8    | 7.8     | 5.6     | 2.0   | 1.2   | 1.0    | .52    |
| E (8.0Ah) | 77.8     | 51.0    | 35.5   | 21.1    | 12.4    | 8.9     | 3.1   | 2.0   | 1.7    | .85    |

**Charging/Temperature/Life:**

| Products              | CHARGING PER BATTERY |                     | TEMPERATURE RANGE           |                              | LIFE EXPECTANCY         |                                |
|-----------------------|----------------------|---------------------|-----------------------------|------------------------------|-------------------------|--------------------------------|
|                       | Cyclic               | Float               | Storage, discharge & charge | Safety pressure relief valve | C/5 Cycle life 100% DOD | Float life at 25°C (20°C)      |
| 4V D, X, & E Monobloc | CV 4.90–5.00<br>CC*  | CV 4.54–4.70<br>CC* | -40°C to +40°C              | 8 psi                        | 300                     | Up to 8 yrs.<br>(Up to 8 yrs.) |
| 6V D, X, & E Monobloc | CV 7.35–7.50<br>CC*  | CV 6.81–7.05<br>CC* | -40°C to +40°C              | 8 psi                        | 300                     | Up to 8 yrs.<br>(Up to 8 yrs.) |

\* Users planning to use CC should consult the Hawker Application Support Department

**Maximum recommended storage time before recharge**—24 months @ 25°C or 2.0vpc, whichever is earlier

**Atmospheric pressure range**—Vacuum to 2 atmospheres

**Mounting**—Each monobloc is equipped with mounting holes in the cover. The tightening torque for mounting the monobloc is 25 in-lbs. When using 4 mounting bolts, small spacers (washers) 1 to 3 mm thick should be placed between the battery and the mounting surface to prevent bowing or stressing the battery case.

**UL Recognized Component. Meets UL 1989**

**Caution:** Batteries contain toxic materials (Pb and H<sub>2</sub>SO<sub>4</sub>) • Avoid short circuit • Do not charge in gas-tight container  
Sealed-lead rechargeable battery must be recycled or disposed of properly. Contact Hawker Customer Service for details.


**CYCLON 4 Volt Monoblocs**

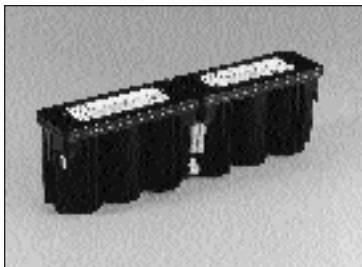
| Product Number | Description        | Length in. (mm) | Width in. (mm) | Height in. (mm) | Weight lbs. (kg) |
|----------------|--------------------|-----------------|----------------|-----------------|------------------|
| 0819-0010      | 4V, 2.5Ah Monobloc | 3.13 (79.5)     | 1.81 (46.0)    | 2.75 (69.9)     | .80 (.36)        |
| 0809-0010      | 4V, 5.0Ah Monobloc | 3.80 (96.5)     | 2.12 (53.8)    | 3.02 (76.7)     | 1.62 (.74)       |
| 0859-0010      | 4V, 8.0Ah Monobloc | 3.81 (96.8)     | 2.13 (54.1)    | 4.00 (101.6)    | 2.11 (.96)       |


**CYCLON 6 Volt Monoblocs**

| Product Number | Description        | Length in. (mm) | Width in. (mm) | Height in. (mm) | Weight lbs. (kg) |
|----------------|--------------------|-----------------|----------------|-----------------|------------------|
| 0819-0012      | 6V, 2.5Ah Monobloc | 4.48 (113.8)    | 1.81 (46.0)    | 2.75 (69.9)     | 1.15 (.52)       |
| 0809-0012      | 6V, 5.0Ah Monobloc | 5.48 (139.2)    | 2.12 (53.8)    | 3.02 (76.7)     | 2.16 (.98)       |
| 0859-0012      | 6V, 8.0Ah Monobloc | 5.48 (139.2)    | 2.13 (54.1)    | 4.00 (101.6)    | 3.15 (1.43)      |

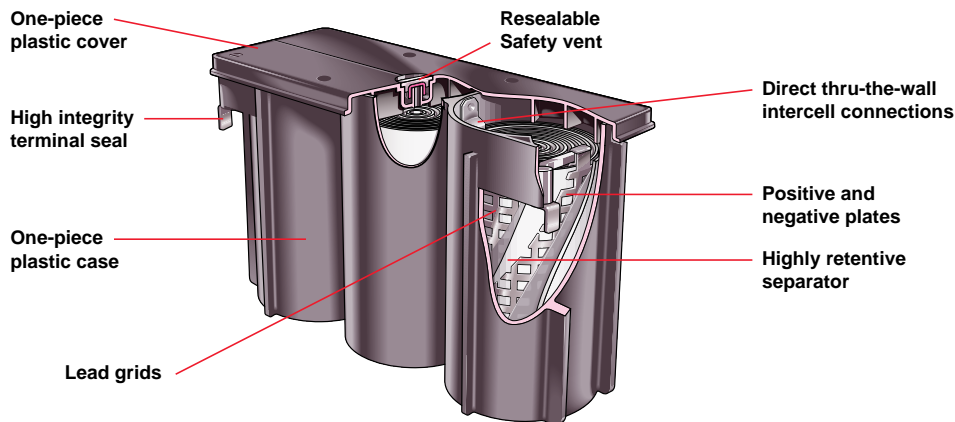

**CYCLON 12 Volt 2x3 Monoblocs**

| Product Number | Description     | Length in. (mm) | Width in. (mm) | Height in. (mm) | Weight lbs. (kg) |
|----------------|-----------------|-----------------|----------------|-----------------|------------------|
| 0819-0020      | 12V, 2.5Ah, 2x3 | 4.48 (113.8)    | 3.52 (89.4)    | 2.77 (70.4)     | 2.30 (1.04)      |
| 0809-0020      | 12V, 5.0Ah, 2x3 | 5.48 (139.2)    | 4.18 (106.2)   | 3.04 (77.2)     | 4.32 (1.96)      |
| 0859-0020      | 12V, 8.0Ah, 2x3 | 5.48 (139.2)    | 4.18 (106.2)   | 4.02 (102.1)    | 6.30 (2.86)      |


**CYCLON 12 Volt 1x6 Monoblocs**

| Product Number | Description     | Length in. (mm) | Width in. (mm) | Height in. (mm) | Weight lbs. (kg) |
|----------------|-----------------|-----------------|----------------|-----------------|------------------|
| 0819-0016      | 12V, 2.5Ah, 1x6 | 8.84 (224.5)    | 1.81 (46.0)    | 2.77 (70.4)     | 2.30 (1.04)      |
| 0809-0016      | 12V, 5.0Ah, 1x6 | 10.88 (276.4)   | 2.12 (53.8)    | 3.04 (77.2)     | 4.32 (1.96)      |
| 0859-0016      | 12V, 8.0Ah, 1x6 | 10.88 (276.4)   | 2.13 (54.1)    | 4.02 (102.1)    | 6.30 (2.86)      |

All dimensions, excluding weight, are maximum



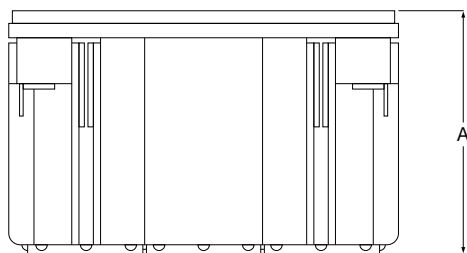
**CYCLON 4V MONOBLOC MECHANICAL SPECIFICATIONS (A, B & C — MAXIMUM)**

| Products   | DIMENSIONS in. (mm) |                |                |               |                | Weight<br>lb. (kg) | Tabs   |
|------------|---------------------|----------------|----------------|---------------|----------------|--------------------|--|
|            | A                   | B              | C              | D             | E              |                    |  |
| D Monobloc | 2.75<br>(69.9)      | 3.13<br>(79.5) | 1.81<br>(46.0) | .61<br>(15.5) | 1.23<br>(31.2) | .80<br>(.36)       | 0.187 in. x 0.025 in.<br>(4.75 mm x 0.64 mm) |
| X Monobloc | 3.02<br>(76.7)      | 3.80<br>(96.5) | 2.12<br>(53.8) | .73<br>(18.5) | 1.45<br>(36.8) | 1.62<br>(.74)      | 0.250 in. x 0.025 in.<br>(6.35 mm x 0.64 mm) |
| E Monobloc | 4.00<br>(101.6)     | 3.81<br>(96.8) | 2.13<br>(54.1) | .73<br>(18.5) | 1.45<br>(36.8) | 2.11<br>(.96)      | 0.250 in. x 0.025 in.<br>(6.35 mm x 0.64 mm) |

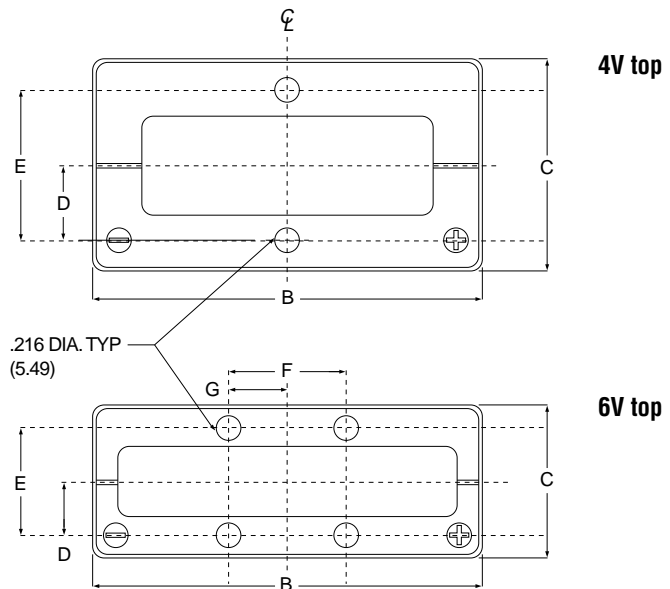
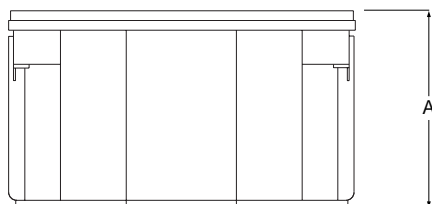
**CYCLON 6V MONOBLOC MECHANICAL SPECIFICATIONS (A, B & C — MAXIMUM)**

| Products   | DIMENSIONS in. (mm) |                 |                |               |                |                |               | Weight<br>lb. (kg) | Tabs   |
|------------|---------------------|-----------------|----------------|---------------|----------------|----------------|---------------|--------------------|--|
|            | A                   | B               | C              | D             | E              | F              | G             |                    |  |
| D Monobloc | 2.75<br>(69.9)      | 4.48<br>(113.8) | 1.81<br>(46.0) | .61<br>(15.5) | 1.23<br>(31.2) | 1.33<br>(33.8) | .67<br>(17.0) | 1.15<br>(.52)      | 0.187 in. x 0.025 in.<br>(4.75 mm x 0.64 mm) |
| X Monobloc | 3.02<br>(76.7)      | 5.48<br>(139.2) | 2.12<br>(53.8) | .73<br>(18.5) | 1.45<br>(36.8) | 1.71<br>(43.4) | .86<br>(21.8) | 2.12<br>(.98)      | 0.250 in. x 0.025 in.<br>(6.35 mm x 0.64 mm) |
| E Monobloc | 4.00<br>(101.6)     | 5.48<br>(139.2) | 2.13<br>(54.1) | .73<br>(18.5) | 1.45<br>(36.8) | 1.71<br>(43.4) | .86<br>(21.8) | 3.15<br>(1.43)     | 0.250 in. x 0.025 in.<br>(6.35 mm x 0.64 mm) |

**D Monobloc**

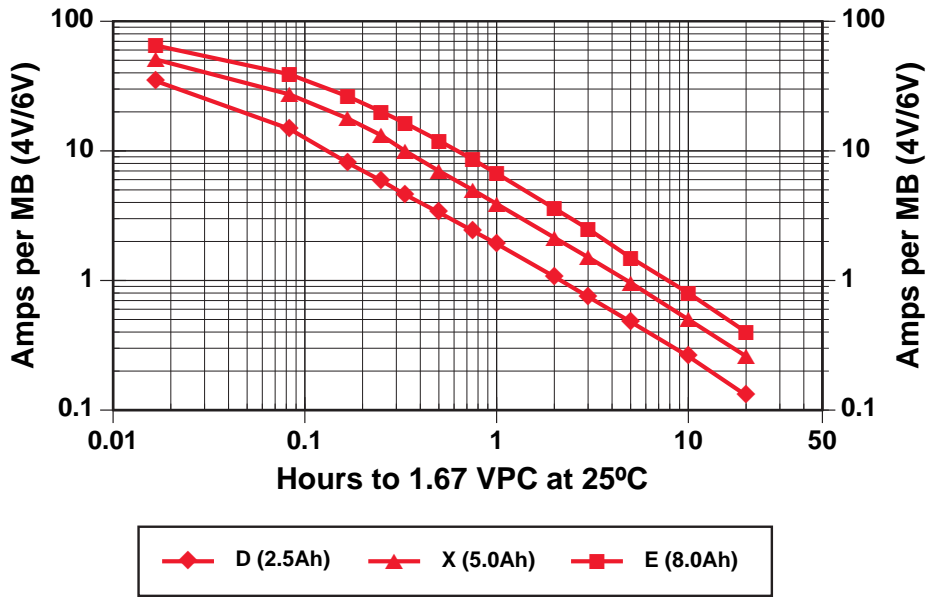


**X & E Monobloc**



**4V/6V MONOBLOC CONSTANT CURRENT (CC) CURVES TO 1.67 VPC**

**Cyclon MB Constant Current Performance**



**4V/6V MONOBLOC CONSTANT POWER (CP) CURVES TO 1.67 VPC**

**Cyclon MB Constant Power Performance**

