

When You're Designing in Performance, Don't Settle For Less Than Pure Lead-Tin.

If you just need a battery, there are many choices. If you need more from your design, however, there is only one choice; pure lead-tin technology. Pure lead-tin overpowers conventional sealed lead products in every category of comparison, and it can only be found in CYCLON and GENESIS batteries manufactured by Hawker. These two design-enhancing battery families provide:

- higher discharge rate
- longer operating life
- wider temperature range (-65°C to +80°C)
- longer shelf life
- faster recharge
- lower internal resistance
- greater design flexibility
- deep discharge capability
- rugged construction
- Department of Transportation nonspillable classification

In other words, our pure lead-tin technology can give your products a competitive edge at a remarkably low cost of ownership to the equipment owner or end user.

HOW DOES THE PURE LEAD-TIN ADVANTAGE WORK?

It all starts with raw materials. Our high purity system allows greater efficiency in the recombination of gas, in turn minimizing vapor loss and preventing dry-out failure. The grid corrosion rate is greatly reduced as a result of using 99.99% pure virgin lead. Our thin-plate design provides the lowest internal resistance in the sealed lead industry and increases plate surface area for the ultimate in power delivery.

CYCLON: THINKING OUTSIDE THE BOX

With the unique cylindrical shape of CYCLON single cells, and the infinite number of possibilities using 2-volt increments which range in capacity from 2.5Ah up to 25Ah, you can think outside the "box". Single cells can be combined in series and/or parallel to meet your specific voltage, ampere-hour and space requirements.



Also available in 4V and 6V monoblocs, the pure lead-tin advantage is yours in whatever shape you need it.

GENESIS: PRISMATIC POWER

Purpose built for high rate power, long float life and high cycle life, the GENESIS flat-plate design can best optimize your space and weight limitations.



POWERED BY PURE LEAD-TIN

You'll find CYCLON and GENESIS pure lead-tin technology powering a wide variety of applications around the globe, including:

- Telecommunications
- Disc storage back-up
- Electric vehicles
- Lawn and garden equipment
- Emergency lighting
- Aerospace
- Global positioning systems
- Medical equipment
- UPS
- Specialty engine start
- Electronics/instrumentation
- Solar
- Defense
- Fixed-point data networks

FOR MORE INFORMATION,
VISIT OUR WEB SITE AT:
www.hepi.com
(soon to be www.hawker.invensys.com)
or call us at 1-800-964-2837

CYCLON 2V SINGLE CELL:

| Products (capacity) | Dimensions | | | | | Performance | | | | |
|------------------------|----------------------|--------------------|--------------------------------------|--------------------|--------------------------------|--|----------------|----------------|----------------|----------------|
| | Diameter in. (mm) | Height in. (mm) | Height with terminals in. (mm) | Weight oz. (gm) | Tabs in. (mm) | Constant current discharge/amps* (Constant power discharge/watts per cell)* | | | | |
| | | | | | | 15 min. | 60 min. | 90 min. | 5 hr. | 10 hr. |
| D cell (2.5Ah) | 1.35 (34.3) | 2.41 (61.2) | 2.68 (68.1) | 6.28 (178.0) | .187 x .025 (4.75 x 0.64) | 5.9 (11.6) | 1.9 (3.8) | 1.4 (2.7) | .48 (.94) | .26 (.50) |
| DT cell (4.5Ah) | 1.35 (34.3) | 3.78 (96.0) | 4.05 (102.9) | 9.68 (274.4) | .187x .025 (4.75 x 0.64) | 11.2 (21.0) | 3.7 (7.1) | 2.6 (5.1) | .85 (1.7) | .45 (.90) |
| X cell (5.0Ah) | 1.75 (44.5) | 2.87 (72.9) | 3.21 (81.5) | 12.77 (362.0) | .250 x .025 (6.35 x 0.64) | 13.2 (23.9) | 3.9 (7.8) | 2.8 (5.6) | .96 (1.9) | .50 (1.0) |
| E cell (8.0Ah) | 1.75 (44.5) | 3.94 (100.1) | 4.28 (108.7) | 17.28 (489.9) | .250 x .025 (6.35 x 0.64) | 19.0 (35.5) | 6.2 (12.4) | 4.4 (8.9) | 1.6 (3.1) | .81 (1.6) |
| J cell (12.0Ah) | 2.04 (51.8) | 4.85 (123.2) | 5.34 (135.6) | 29.60 (839.2) | 0.312 x 0.032 (7.92 x 0.81) | 29.4 (53.4) | 9.2 (18.3) | 6.5 (13.2) | 2.3 (4.7) | 1.20 (2.3) |
| BC cell (25Ah) | 2.57 (65.3) | 6.25 (158.8) | 6.82 (173.2) | 58.88 (1669.2) | M6 (-) and M8 (+) terminals | 54.3 (105.5) | 19.3 (36.8) | 14.0 (25.6) | 4.85 (9.20) | 2.55 (4.95) |

MONOBLOC 4V & 6V:

| Products (capacity) | Dimensions | | | | | Performance | | | | |
|------------------------|--------------------|-------------------|--------------------|--------------------|-------------------------------|--|---------------|--------------|--------------|--------------|
| | Length in. (mm) | Width in. (mm) | Height in. (mm) | Weight lb. (kg) | Tabs in. (mm) | Constant current discharge/amps* (Constant power discharge/watts per cell)* | | | | |
| | | | | | | 15 min. | 60 min. | 90 min. | 5 hr. | 10 hr. |
| 4V D (2.5Ah) | 3.13 (79.5) | 1.81 (46.0) | 2.75 (69.9) | .80 (.36) | 0.187 x .025 (4.75 x 0.64) | 5.9 (11.7) | 1.9 (3.8) | 1.4 (2.7) | .48 (.93) | .26 (.49) |
| 4V X (5.0Ah) | 3.80 (96.5) | 2.12 (53.8) | 3.02 (76.7) | 1.62 (.74) | .250 x .025 (6.35 x 0.64) | 13.5 (24.2) | 4.0 (7.8) | 2.8 (5.6) | 1.0 (2.0) | .52 (1.0) |
| 4V E (8.0Ah) | 3.81 (96.8) | 2.13 (54.1) | 4.00 (101.6) | 2.11 (.96) | 0.250 x .025 (6.35 x 0.64) | 19.0 (35.5) | 6.2 (12.4) | 4.4 (8.9) | 1.6 (3.1) | .81 (1.7) |
| 6V D (2.5Ah) | 4.48 (113.8) | 1.81 (46.0) | 2.75 (69.9) | 1.15 (.52) | 0.187 x .025 (4.75 x 0.64) | 5.9 (11.7) | 1.9 (3.8) | 1.4 (2.7) | .48 (.93) | .26 (.49) |
| 6V X (5.0Ah) | 5.48 (139.2) | 2.12 (53.8) | 3.02 (76.7) | 2.16 (.98) | 0.250 x .025 (6.35 x 0.64) | 13.5 (24.2) | 4.0 (7.8) | 2.8 (5.6) | 1.0 (2.0) | .52 (1.0) |
| 6V E (8.0Ah) | 5.48 (139.2) | 2.13 (54.1) | 4.00 (101.6) | 3.15 (1.43) | 0.250 x .025 (6.35 x 0.64) | 19.0 (35.5) | 6.2 (12.4) | 4.4 (8.9) | 1.6 (3.1) | .81 (1.7) |

GENESIS 12V:

| Products (capacity) | Dimensions | | | | | Performance | | | | |
|------------------------|--------------------|-------------------|--------------------|--------------------|--------------------------------|---|-----------------|-----------------|---------------|---------------|
| | Length in. (mm) | Width in. (mm) | Height in. (mm) | Weight lb. (kg) | Brass Terminals (metric) | Constant current discharge/amps* (Constant power discharge/watts per battery)* | | | | |
| | | | | | | 15 min. | 60 min. | 90 min. | 5 hr. | 10 hr. |
| G13EP (13Ah) | 6.910 (175.51) | 3.282 (83.36) | 5.113 (129.87) | 10.8 (4.9) | M6 | 32.2 (361.2) | 10.4 (121.2) | 7.3 (85.8) | 2.5 (29.4) | 1.3 (15.6) |
| G16EP (16Ah) | 7.150 (181.61) | 3.005 (76.33) | 6.605 (167.77) | 13.5 (6.1) | M6 | 40.1 (453.6) | 12.7 (190.2) | 8.9 (105.0) | 3.0 (36.0) | 1.6 (19.2) |
| G26EP (26Ah) | 6.565 (166.75) | 6.920 (175.77) | 4.957 (125.91) | 22.3 (10.1) | M6 | 67.4 (751) | 21.7 (251) | 15.1 (175.8) | 5.0 (59) | 2.6 (31) |
| G42EP (42Ah) | 7.775 (197.49) | 6.525 (165.74) | 6.715 (170.56) | 32.9 (14.9) | M6 | 104.1 (1173) | 33.8 (394) | 23.5 (276) | 7.9 (94) | 4.2 (51) |
| G70EP (70Ah) | 13.020 (330.71) | 6.620 (168.15) | 6.930 (176.02) | 53.5 (24.3) | M6 | 173.4 (1940) | 57.4 (670) | 40.6 (486) | 13.4 (161) | 7.1 (86) |

* to 1.67 vpc @ 25°C

UL Recognized Component. CYCLON & GENESIS meet UL 1989.

The information in this publication is accurate as of its publication date. Specifications are subject to change without notice.