



**VALVE REGULATED  
LEAD ACID BATTERY (V.R.L.A.)**



**ADVANCED ABSORBED GLASS  
MAT TECHNOLOGY (A.G.M.)**



**10 YEAR DESIGN FOR UPS AND  
STANDBY APPLICATIONS**



### Features

- Flame-retardant polypropylene case and cover compliant with UL94 V-0 with an Oxygen Limiting Index of greater than 28%.
- Gas recombination greater than 99%.
- Operates at a low internal pressure.
- Never needs watering, minimal maintenance.
- 99.7% pure lead, calcium alloy grids.
- Shock absorbent thick wall polypropylene cases.
- Cold forged non-porous terminal bushings, eliminate post leakage.
- Thermally welded case to cover bond, eliminates both acid and electrical leaks.
- Over-sized, through the partition inter-cell welds provide low resistance connections, with minimal power loss.
- Flame arresting, low pressure safety release venting system for individual cells, recognized per U.L.924.
- Compliant with BS6290 Part 4 and IEC 896-2.
- Measured high vacuum acid fill, reduces electrical variability between cells.
- 100% recyclable materials.

### Specifications

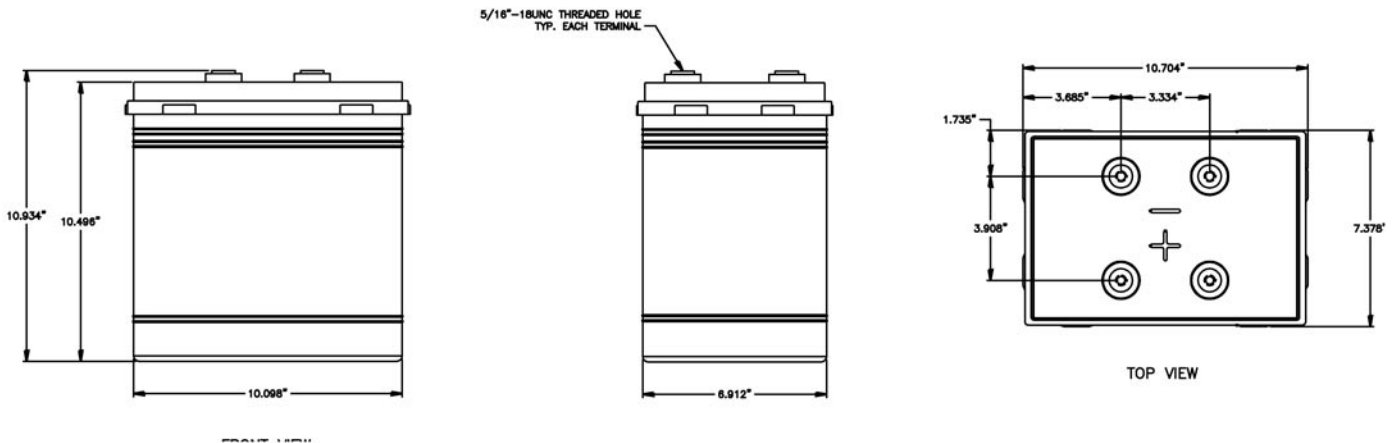
|                                      |  |
|--------------------------------------|--|
| Cells per unit                       | 1  |
| Nominal voltage                      | 2  |
| Terminal type                        | Copper insert 5/16"  |
| Short circuit current                | 11500 amps   |
| Impedance @ 77°F 25°C                | 0.20 milliohms   |
| Weight lbs / kgs                     | 87.0 / 39.5  |
| Electrolyte (S.G.)                   | 1.300  |
| Capacity @ 77°F (25°C)               | 480 AH (8 hrs) to 1.75 V.P.C.  |
| Ideal operating temperature range    | +68°F (+20°C) to +77°F (+25°C)   |
| Extended operating temperature range | Discharge: -40°F (-40°C) to +140°F (+60°C)<br>Charge: -4°F (-20°C) to +122°F (+50°C) |
| Float Voltage                        | 2.25 to 2.30 @ 77°F (25°C)   |
| Recommended maximum charging current | C/4 amperes at 100% discharge<br>Unlimited at partial discharge.                     |
| AC ripple from charging source       | 1.5% peak to peak of float   |
| Storage period without recharge      | 6 months at 77°F (25°C)  |

### Options

- Terminal covers.
- Inter-connecting battery cables.
- Warranty extensions.
- Open, Cladded Rack and Cabinet options.

### No transport restrictions

- Surface transport. Classified as non-hazardous material as relates to DOT-CFR Title 49 part 171-189.
- Maritime transport. Non hazardous as per IMDG amendment 27.
- Air transport. Non hazardous complies with IATA / ICAQ, special provision A67.



Power Battery offers an extensive line of pre-wired and fused battery cabinets. Standard and custom DC voltages complete with breakers and chargers are available.



KS3 Cabinet Model



Open Rack



Cladded Rack

**Hours discharge rates in constant current (Amperes) and constant power (Watts) @ 77°F (25°C)**

| Volts per cell |       | 1   | 2   | 3   | 4     | 5    | 6    | 7    | 8    | 9    | 10   | 12   | 24   | 48   |
|----------------|-------|-----|-----|-----|-------|------|------|------|------|------|------|------|------|------|
| 1.75           | Amps  | 364 | 208 | 147 | 112   | 91.0 | 77.0 | 67.1 | 60.0 | 54.3 | 49.8 | 42.7 | 23.5 | 12.8 |
|                | Watts | 700 | 385 | 269 | 208   | 171  | 145  | 126  | 112  | 101  | 92.0 | 78.0 | 42.0 | 22.7 |
| 1.80           | Amps  | 343 | 203 | 144 | 109.7 | 88.6 | 75.1 | 65.4 | 58.4 | 53.0 | 48.6 | 41.7 | 23.1 | 12.5 |
|                | Watts | 666 | 368 | 258 | 200   | 164  | 140  | 122  | 108  | 98.0 | 89.0 | 76.0 | 41.0 | 22.1 |
| 1.85           | Amps  | 316 | 192 | 137 | 105   | 85.0 | 71.4 | 62.2 | 55.5 | 50.2 | 45.9 | 39.3 | 21.6 | 11.7 |
|                | Watts | 624 | 350 | 247 | 192   | 158  | 134  | 117  | 104  | 94.0 | 85.0 | 73.0 | 39.0 | 21.0 |
| 1.90           | Amps  | 282 | 169 | 119 | 94.1  | 78.2 | 67.2 | 59.0 | 52.9 | 47.8 | 43.7 | 37.5 | 20.6 | 11.1 |
|                | Watts | 565 | 317 | 220 | 169   | 139  | 118  | 103  | 91.0 | 82.0 | 75.0 | 64.0 | 34.0 | 18.6 |

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