

VIVA[®] Sealed Primary Gelled Electrolyte Energy Cell



TIDELAND SIGNAL CORPORATION

VIVA[®] G-Series Energy Cells are compact, lightweight and ideal for powering aids to navigation. Each cell provides constant voltage plus exceptional energy density (392 WH/kg, 702 WH/dm³) and requires no maintenance throughout its life.

FEATURES:

- **POWER** – Cells are activated by removing an adhesive seal covering ventilation holes, allowing air flow. G-Series Cells require free airflow. Do not install cells in an airtight enclosure.
- **SUSTAINED VOLTAGE** – Manganese dioxide in the positive electrodes provides a reserve capacity for current peaks that deplete oxygen in the cell.

ADDITIONAL FEATURES:

- Cells are supplied, ready for field use, in plastic cases
- Prewired in series or parallel to obtain higher voltages or current capacities
- Cells operate over a range of ambient temperature (-20°C to +50°C)*
- Maintain full capacity at levels of 25% to 85% relative humidity**
- G-Series cells operate in any position and on installations in motion
- Safe to handle without danger of spilling corrosive caustic liquids (Shipping Classification UN2800)

*Temperatures below -20°C do not harm cells, however performance may be affected

**At other levels of relative humidity, use of a 15% capacity derating factor is recommended



The VIVA G2-12 battery above contains two prewired VIVA G1-12 cells.

VIVA BUOY ENERGY-PAKS

Tideland's VIVA G9-12 Buoy Energy-Pak is a complete 12-volt electrical power supply for buoys with 564 mm (22 inch) or 615 mm (24 inch) pockets. Each Energy-Pak consists of nine G1-12 cells, factory wired to accessible terminal connections within a rugged plywood enclosure. The enclosure includes a top-mounted terminal block, anti-rotation bracket, lifting eye and nylon hoisting line.

Buoy Energy-Paks provide stable voltage throughout their lifetime with no required maintenance. Good voltage characteristics eliminate the need for a voltage regulator.

Lightweight G9-12 Energy-Paks are safe and easy to handle. Sealed construction and oxygen-activation eliminate the possibility of spills. Energy-Paks are shipped with vents sealed. To activate, simply remove the ventilation seals on top of the Energy-Pak.

For users requiring higher capacity, the G9-24 Buoy Energy-Pak will also fit in 564 mm (22 inch) or 615 mm (24 inch) pockets.



VIVA G-SERIES SPECIFICATIONS

Model	Part No.	Description	Pulse* Current	Nom. Voltage	Nom. Capacity
G1-12	182.1071-00	1 G1-12 cell	3 A	1.35 V	1200 AH
G2-12	182.1073-00	2 G1-12 cells in tray	3 A	2.70 V	1200 AH
G3-12	182.1074-00	3 G1-12 cells in tray	3 A	4.05 V	1200 AH
G1-24	182.1073-01	2 G1-12 cells in tray	6 A	1.35 V	2400 AH
G1-36	182.1074-01	3 G1-12 cells in tray	9 A	1.35 V	3600 AH
G9-12	182.1072-00	Buoy Energy-Pak (9 G1-12 cells)	3 A	13.5 V	1200 AH

Model	Dimensions	Weight
G1-12	109 mm (4.25 in) x 109 mm (4.25 in) x 231 mm (9.00 in)	4.1 kg (9 lb)
G2-12	221 mm (8.63 in) x 112 mm (4.38 in) x 231 mm (9.00 in)	9.1 kg (20 lb)
G3-12	333 mm (13.00 in) x 112 mm (4.38 in) x 231 mm (9.00 in)	13.15 kg (29 lb)
G1-24	221 mm (8.63 in) x 112 mm (4.38 in) x 231 mm (9.00 in)	9.1 kg (20 lb)
G1-36	333 mm (13.00 in) x 112 mm (4.38 in) x 231 mm (9.00 in)	13.15 kg (29 lb)
G9-12	410 mm (16.00 in) x 410 mm (16.00 in) x 538 mm (21.00 in)	50.8 kg (112 lb)

*Based on 12% duty cycle, 14 hour/day maximum.

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Tideland Signal Corporation maintains ISO 9001:2000 accreditation. It is company policy to provide products and services that meet the highest standards of quality in the industry.

Membership Organisations



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