



# ABSOLYTE<sup>®</sup> GX



## Industrial Batteries



**INDUSTRIAL POWER**

A Division of **EXIDE** Technologies



# From the World Leader in VRLA Battery Technology

## Absolyte GX- Superior Performance

### Superior Grid Technology

- 20 year design life in float applications at 25°C (77°F)<sup>1</sup>
- Patented high performance Lead-Calcium-Tin Silver Positive Grid alloy
- Recyclable to world standards
- Superior cycleability - up to 1200 cycles to 80% DOD at 25°C (77°F)<sup>1</sup>
- Full recovery from 100% depth of discharge, or other abusive discharge conditions.
- Accepts high rate of recharge current (100 Amps/100Amp Hours of capacity).



### The GX Advantage

- Square plate allows current to travel a shorter distance, lowering the internal resistance of the battery.
- Horizontal plate stacking eliminates acid stratification for greater utilization of the entire plate.
- Proven Absolyte history dating back to 1983 when GNB debuted the first large capacity VRLA battery in the industry.
- Dual lugs on plates improves discharge characteristics.
- The only single-cell VRLA-AGM battery available with up to 3,000 amp-hours.
- The steel face plate contributes to proper heat dissipation.
- Robust design for high temperature environments.
- Reduces need for paralleling.

### Qualifications

- Absolyte GX is qualified to stack horizontally up to six high for use in 1997 UBC Zone 4 (at or below grade).
- ISO 9001:2000, UL Recognized

### Application Ready

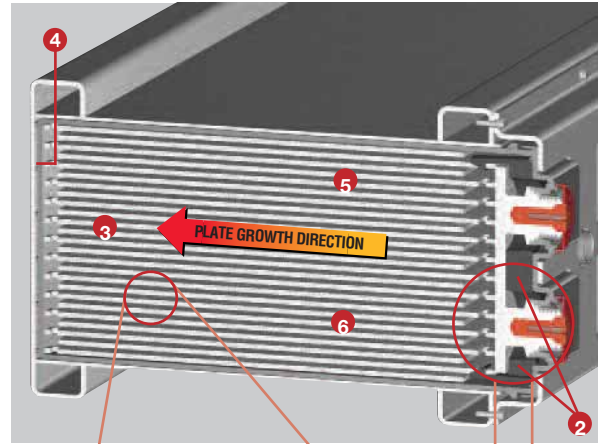
- Telecommunications
- Utility Switch Gear and Control
- Battery Energy Storage Systems
- Photovoltaics
- UPS



1. When operated per the I&O manual

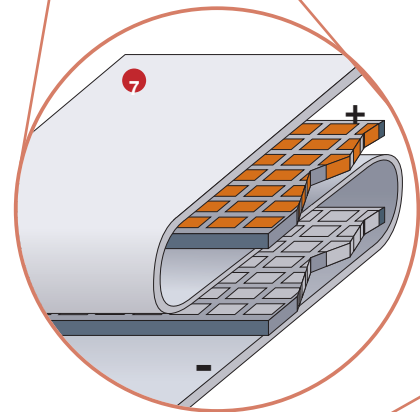
**State of the Art Design**

As an industrial battery ages, chemical corrosion causes the positive plates to expand, placing pressure on the posts, the cover and the seals. Excessive plate growth, which can be caused by high temperature environments, may cause the positive plate to damage the cover and seals, thus shortening the life of the battery. The GX design helps to reduce this failure mode by removing stresses placed on the seals and cover by forcing the growth away from the seals.



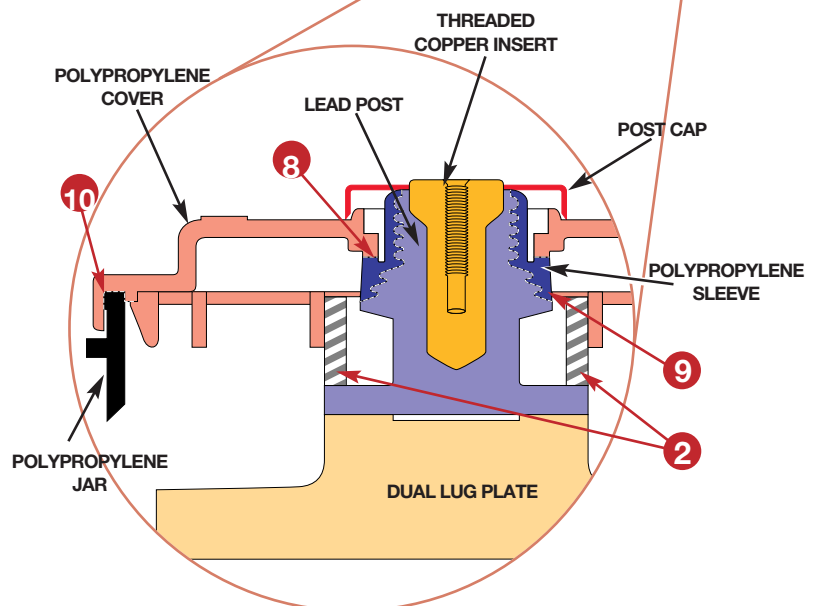
- 1 The steel face plate reduces stress on the cover, and improves heat dissipation through the cover.
- 2 The post restraint spacer reduces stress on the post using the face plate for support.
- 3 Plate growth is forced away from the posts and the cover seals.
- 4 Additional space is designed into the battery to accommodate the positive plate growth.

- 5 Horizontal plate stacking improves heat dissipation through the tray.
- 6 High separator compression within the cell maintains plate to separator contact, helping to reduce the possibility of capacity loss.
- 7 Unique "S" wrap absorbed glass mat separator design helps prevent positive (orange) plate to negative (gray) plate shorting.



**The Most Reliable Post and Jar to Cover Seal Design**

- 8 The GX post seal design eliminates the lead to lead bond with a completely non-corrosive polypropylene to polypropylene bond – formed by a fusion process that creates a bond as strong as the original material.
- 9 The interface between the lead post and the plastic sleeve is coated with a viscous bonding agent that helps guarantee a virtually leak free bond.
- 10 The proven tongue and groove seal technology, used on the jar to cover seal, improves seal strength and durability.



**In Plant Helium Leak Testing**

Leaks 1000 times smaller than the eye can see are discovered by a super-sensitive leak detection system, helping to guarantee the quality of the seals.



## Exide Technologies – The Industry Leader.



GNB Industrial Power, a division of Exide Technologies is a global leader in stored electrical energy solutions for all major critical reserve power applications and needs. Network power applications include communication/data networks, UPS systems for computers and control systems, electrical power generation and distribution systems, as well as a wide range of other industrial standby power applications. With a strong manufacturing base in both North America and Europe and a truly global reach (operations in more than 80 countries) in sales and service, GNB Industrial Power is best positioned to satisfy your back up power needs locally as well as all over the world.

### GNB Industrial Power

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Based on over 100 years of technological innovation the Network Power Division leads the industry with the most recognized global brands such as ABSOLYTE<sup>®</sup>, SONNENSCHWEIN<sup>®</sup>, MARATHON<sup>®</sup>, SPRINTER<sup>®</sup>, RELAY GEL<sup>®</sup> and GNB FLOODED CLASSIC<sup>™</sup>. They have come to symbolize quality, reliability, performance and excellence in all the markets served.

Exide Technologies takes pride in its commitment to a better environment. Its Total Battery Management program, an integrated approach to manufacturing, distributing and recycling of lead acid batteries, has been developed to ensure a safe and responsible life cycle for all of its products.



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