



**GNB FUSION<sup>™</sup> Fast Charge  
System Solutions**

# GNB FUSION™ Fast Charger

The GNB FUSION™ line of fast chargers is specifically designed to meet the growing fast charging demand of motive power batteries. The new chargers feature the first and only modular design that allows for high availability, greater flexibility, and simpler installation and service. The modular design offers greater flexibility and scalability to build and expand any fast charger system, redundancy which ensures continued operation with a drawer failure, and above all the lowest downtime and fastest service time.

## Features

- The First & Only Modular Fast Charger on the Market
- Flexible & Reconfigurable Fast Chargers
- Highest Availability Fast Charger
- Smallest Size and Lowest Weight
- Superior Programming Capabilities

## Applications

- Industrial Electric Vehicles
- Electric Forklift Trucks
- Industrial Mobile Equipment
- Electric Ground Support Equipment (GSEs)



## Flexibility and Scalability

The GNB FUSION™ fast chargers feature a modular drawer design utilizing a 10kW base drawer unit. As a result, fast charging systems ranging from 10kW-30kW to be easily configured. In addition, the GNB FUSION™ fast chargers can be easily expanded / upgraded by adding additional drawers.

## Redundancy and High Availability

One of the main benefits that a modular design offers is redundancy. The GNB FUSION™ modular design ensures continued operation down to the last drawer (multi-drawer system). This entails high availability as the charger will continue to operate with the remaining drawers ensuring the battery and the truck are still operational.

## Low Down Time and Quick Service Time

The GNB FUSION™ modular design allows for easy and quick removal and installation of the charger drawers. Typical service times of 15-30 minutes make the GNB FUSION™ the simplest and fastest serviceable fast charger on the market.

## Highly Intelligent User Interface with Advanced Programmability

The GNB FUSION™ fast chargers utilize the latest software and hardware microprocessor technologies and are the first to allow programmability via Palm handheld devices. All charger settings and features can be easily programmed via a Palm PDA. End users can easily customize the charger operation to fit their needs with the push of a button.

# GNB FUSION™ Batteries

The GNB FUSION™ line of fast charge batteries are specifically designed to meet the high energy demands of fast charging.

## *Features and Benefits*

### **Rugged Flooded Flat Plate Technology**

Proven, economical flooded flat plate lead-acid design allows the battery to handle the high current demands of fast charging.

### **Available in Non-vented or Vented Trays**

Although non-vented trays have been shown to adequately dissipate the heat generated during the majority of fast charging applications, vented trays are available and may be justified for those customers who have more demanding applications.

### **Heavy-duty Burn-on Intercell Connectors and Cable Termination Lead Heads**

Enhanced connectors and lead heads provide for better conductivity and lower heat generation than those used on standard lead-acid batteries.

### **Single or Double Cables with SBX or Euro Connectors**

When required for higher Ampere-hour capacity batteries, more conductor cross-sectional area helps to carry the higher current of fast charging for increased charge acceptance and reduced heat generation.

### **Each battery includes a BFS Single Point Watering Kit and Battery Monitoring Unit**

A watering kit makes it easier to add water consistently to each of the battery cells and eliminates the need to remove the battery from the lift truck for water addition.

A battery monitoring unit is essential for monitoring critical battery parameters during the fast charging process and for tracking and recording battery usage to aid in determining replacement time.



All GNB FUSION™ fast charge batteries are UL approved and made in the USA in a manufacturing facility that is certified to both ISO 9001:2000 (Quality Management System) and ISO 14001:2004 (Environmental Management System).

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# GNB Industrial Power – The Industry Leader.



GNB Industrial Power, a division of Exide Technologies, is a global leader in motive power battery and charger systems for electric lift trucks and other material handling equipment. 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 power needs locally as well as all over the world.

Based on over 100 years of technological innovation, the Motive Power group leads the industry with the most recognized global brands, such as GNB® FLOODED

CLASSIC®, GNB® FLOODED CLASSIC PLATINUM™, TUBULAR-HP® HIGH PERFORMANCE, TUBULAR-LM™ LOW MAINTENANCE, ELEMENT® and GNB® FUSION™. They have come to symbolize quality, reliability, performance and excellence in all the markets served.

GNB Industrial Power 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 help ensure a safe and responsible life cycle for all of its products.

## GNB Industrial Power

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