

FAST CHARGER



The GNB® FUSION™ Series is a line of FAST industrial battery chargers that feature advanced power electronics technologies and microprocessor controls. The new line features state-of-the-art power electronics technologies, resulting in higher efficiencies, smaller size, and lower weight. The advanced on-board microprocessor controls incorporate programmable charging algorithms that can be tailored to meet your application requirements.



Advantages

- Eliminates battery changeout
- Reduces operational costs
- Improves worker productivity and safety
- Compact size and weight
- Modular Design – Flexible & Reconfigurable

Applications

- Industrial electric vehicles - Forklift trucks and ground support equipment (GSEs)
- Electric and hybrid electric vehicles

Features and Benefits

• Multi Voltage Capability

The GNB® FUSION™ Series is a multi-voltage multi-capacity battery charger eliminating the need for multiple chargers in a facility or plant. Users can standardize on a single fast charger from a single source simplifying installation, operation, and maintenance. With its advanced user interface, the chargers are field programmable to fit any battery size.

• Advanced Intelligence and Controls

The GNB® FUSION™ chargers features state-of-the-art microprocessor controls and advanced user interfaces including an on-board Infra Red port. Using a PDA device (a Palm Pilot) along with user friendly Palm software, users can easily and fully program various charging parameters and select among the various charging sequences that best meet their specific battery needs.

• Advanced User Interface with Remote Control Capability

Equipped with an RS-232, an IR port, and an optional Ethernet port, GNB® FUSION™ extends its programmability and monitoring features to remote hosts such as PCs, PDAs, PLCs, and servers.

Typical Specifications

Specifications	FSN-10kW	FSN-20kW	FSN-30kW
Volts / Amps	48V / 200A	48V / 400A	48V / 600A
Input Specs			
Voltage	480VAC, 3-Phase $\pm 10\%$ Delta Connection with Earth Ground		
Current	13.8A rms nominal	27.6A rms nominal	41.4A rms nominal
Power Factor	0.96		
Output Specs			
Voltage	12V-48V Nominal, 62.5V Max.		
Current	250A Max.	500A Max.	600A Max.
Power	10kW	20kW	30kW
Overload	110 %		
Peak-to-Peak Voltage Ripple	< 1%		
Efficiency	92%		
Protection			
Input	<ul style="list-style-type: none"> ➤ Under Voltage ➤ Over Voltage 		
Output	<ul style="list-style-type: none"> ➤ Over Current ➤ Over Voltage ➤ Over Temperature ➤ Reverse Polarity Protection 		
Operating Conditions			
Ambient Temperature	0-40° C		
Humidity	10-90% RH non-condensing		
Interface			
Communication	Isolated RS-232 (Ethernet optional)		
User Interface	LCD/Keypad, RS-232, IR with a PDA (Palm Pilot)		
Cooling	Forced air (fans)		
Mechanical			
W x D x H	23"x28"x34"	23"x28"x34"	23"x28"x34"
Weight	~ 160 lb	~ 290 lb	~ 350 lb
Output Cables	2/0 cables	2 sets of 4/0 cables	2 sets of 4/0 cables
Output Connectors	Euro	Euro	Euro
Auxiliary Contacts	Interface with a 5 k Ω battery thermistor	Interface with a 5 k Ω battery thermistor	Interface with a 5 k Ω battery thermistor
Certifications	UL and cUL Listed		

Note: Design and/or specifications are subject to change without notice. If questions arise, contact your local sales representative for clarification.

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