

INTRODUCING GVI GENERATION 2

Safe, Smart, and Scalable mobile inverter for on and off-road applications

Parker Hannifin Corporation, a global leader in motion and control technologies, is proud to announce the launch of its second generation Global Vehicle Inverter (GVI). This new generation of mobile inverters offers advanced motor control solutions for both traction and work function applications across a wide range of on and off-road vehicles.

The GVI is designed to meet the evolving needs of OEMs in industries such as construction, mining, material handling, agriculture, and transportation. This latest iteration builds on the success of its predecessor, delivering enhanced performance, improved safety features, and greater flexibility.



Key Features and Benefits:

Scalability: The GVI GEN 2 is designed for a wide range of applications. Three inverter sizes (power): GVI075 (75kW), GVI125 ((125kW) Arriving in 2025), and GVI250 (250kW), support a breadth of Global Vehicle Motors (GVMs).

Advanced Safety Features: The GVI meets the highest safety standards, making it ideal for critical automotive applications which includes Safe Torque Off (STO), High Voltage Interlock Loop (HVIL), active/ passive discharge, and high speed overvoltage protection.

High Efficiency Liquid Cooling: Ensures optimal performance even in demanding environments, reducing thermal stress and extending the lifespan of the inverter.

Wide Operating Voltage Range: Supports battery systems between 200 and 750 VDC, providing versatility across various vehicle platforms.

Rugged Design: Rated IP67/IP6K9K, the GVI is built to withstand harsh conditions, ensuring reliable operation in the most challenging environments.

Integrated I/O (EHP): Offers enhanced connectivity and control, making it easier to integrate into existing systems.

The second generation GVI also features internal EMI filters, high voltage Powerlok™ connections, and flexible mounting options, making it a highly adaptable solution for a variety of applications. Additionally, the inverter's robust platform and intelligent control software provide OEMs with a powerful tool to maximize efficiency and performance across the entire speed range of their vehicles.



Applications and Industries

The GVI is perfectly suited for a wide range of applications, including:

- Construction equipment
- Mining vehicles
- Material handling equipment
- Trucks, buses, and coaches
- Agricultural machinery
- Electrohydraulic pump control (EHP)

Mobile Inverter Purpose

A mobile inverter is a device that converts DC (direct current) power, typically from a vehicle's battery, into AC (alternating current) power to drive electric motors. Its primary purpose is to control and manage the power flow to the motors in electric and hybrid vehicles, enabling efficient operation across various driving conditions. By precisely regulating motor speed and torque, a mobile inverter ensures optimal performance, energy efficiency, and smooth acceleration in vehicles such as cars, trucks, buses, and heavy machinery.

Availability

The Parker GVI GEN 2 Series is now available for order. For more information, technical specifications, or to request a quote, please visit our [GVI Series Page](#) or contact your local Parker representative.

About Parker Hannifin

With a rich history of innovation and engineering excellence, Parker Hannifin is committed to providing industry-leading solutions that drive efficiency, safety, and sustainability. The launch of the second generation GVI marks another step forward in our mission to empower customers with cutting-edge technology that meets the demands of today and the challenges of tomorrow.

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