

GLOBAL VEHICLE INVERTER

GVI125 High Voltage Mobile Inverter

Description:

Safe, Smart and Scalable, the second generation of GVI mobile inverters provide a single-family solution for both traction and work function applications, on and off-road. The robust WEG cooled housing is rated up to IP6K9K and altitudes of up to 5000m.

Plug and socket connections on the front face simplify installation, and the comprehensive configuration software tool combined with both CAN open and J1939 interfaces gives system design flexibility.

Designed for pairing with the Parker GVM range of PMAC mobile motors, the GVI125 has the perfect balance of efficiency, performance and reliability. GVI integrates seamlessly with Parker's IQAN range of products, and with Electro-Hydraulic Pump (EHP) applications in mind, the GVI features onboard I/O tailored to hydraulic work functions.



Features:

- WEG Cooled IP6K9K Housing
- Front facing, plug in connectors
- Separate vehicle and motor connectors
- CANopen and J1939 ports
- Dual redundant motor temperature inputs
- Full current capability from 200-750V DC
- Safe Torque Off
- Configurable HVIL
- Active and passive DC bus discharge
- High speed overvoltage protection
- CE and UN ECE R10/R100 compliant
- EMC and DC power filters onboard
- High output frequency capability

Applications:

- Traction and propulsion
- Electrohydraulic Pump (EHP) control
- Hybrid power generation
- Mobile machinery

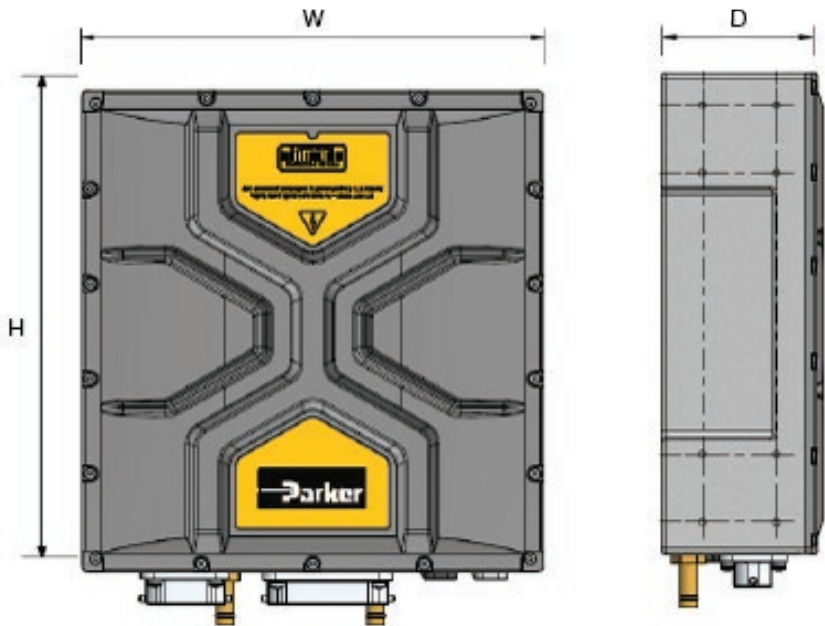


Technical Specifications

Model	GVI125-0650-180-FRXA-G000
Output Power - Nominal at 650 Vdc	125 kW
Motor Type	Permanent Magnet AC (PMAC)
Supply Voltage	200-750V DC
Continuous Current (1 hr)	180 A
Overload	130% for 60 seconds
Continuous Power	125 kW
Switching Frequency	1.5-8kHz Variable (1)
Temperature Range	-40°C - 65°C
Altitude	0-5000m
Housing	IP67/IP6K9K
Cooling	WEG 50:50 -20°C - 65°C
Output Frequency	0-1333Hz(2)
Auxiliary Supply	8-32V DC
CAN Interfaces	CANopen, J1939, DM1, UDS(3)
Compliance	EN61800-5, IEC61800-3, ISO 13849, ISO6469 R10, R100, CISPR25 Edition 4, Class 3, ISO11452, ISO7637, 61000-6-2, ISO 16750

- 1) Higher switching frequencies may require current derating
2) Software limited to 590Hz
3) 125 baud – 1M baud, with/without termination

Dimensions



	GVI125-0650-180-FRXA-G000
Height	395mm / 15.55"
Width	339mm / 13.35"
Depth	119mm / 4.68"
Weight	19.5kg / 43lb

