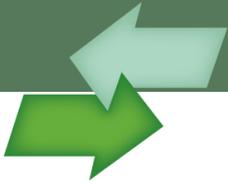
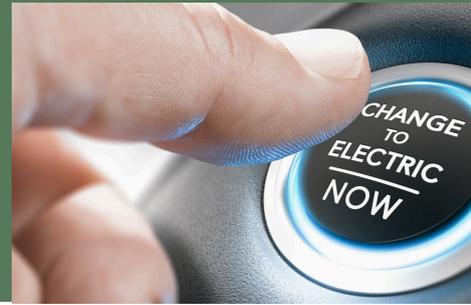


# ELECTRIFICATION KIT

GLR08 / 8.8kW 72V 51Ah



## Guilera Electrification Solutions

Guilera offers a range of electrification kits designed for seamless integration into diverse vehicle platforms, from motorcycles and off-highway vehicles to marine applications. Our kits provide a complete solution including motor, controller, battery, and power electronics, ensuring reliability and performance. Additionally, we offer engineering services for integration to support OEMs and manufacturers in electrification projects, from prototype development to full-scale production.

## Heavy-Duty Electronics for Your Project

The GLR03 electrification kit is a complete, mid-mounted motor drive system designed for seamless integration into light electric vehicles. With a highly efficient PMSM motor, an advanced FOC MTPA controller, and a high-capacity lithium battery, this system ensures exceptional performance, efficiency, and reliability for urban, off-road, off-highway, and heavy-duty applications.

## Benefits

- **Optimized Power & Battery Capacity** – Yields extended range and top performance in off-highway, urban and industrial EVs.
- **Cost-Effective Electrification** – Decades of expertise ensure a high-quality, affordable solution optimized for OEM electrification projects.
- **Integrated System for Fast Deployment** – Pre-configured with all essential components to simplify integration and accelerate time to market.
- **Industrial-Grade Durability** – IP67-rated for reliable operation in harsh environments, including off-highway and marine applications.
- **Energy-Efficient Performance** – Advanced FOC MTPA control maximizes battery efficiency, extending range while reducing energy consumption and costs.
- **Turnkey Integration & OEM Support** – Ready-to-use system with expert technical support for seamless OEM integration and validation.

**Motor** Model:GLRM08  
Type: PMSM  
Peak Power: 8.8 kW  
Max Shaft Torque: 150 N.m  
Max Shaft RPM: 2674 rpm  
Size: 226.5 × 193.7 × 157 mm  
Weight: 12.0 kg  
Protection Rating: IP67



**Battery** Model: GLRB08.3692  
Voltage: 72.4V (60V - 82V)  
Capacity: 51Ah (3692.4Wh)  
Discharge Rate: 3C  
Size: 349 x 217x 169 mm  
Weight: 22.5 kg



**Controller** Model GLRC08  
Control Type: FOC with MTPA algorithm  
Peak Output Current: 750A  
Nominal Voltage: 72V  
Efficiency: >95%  
Cooling System: Passive air cooling  
Com. Protocol: CAN bus  
Size: 270.0 × 122 × 56 mm  
Weight: 2.1 kg  
Protection Rating: IP67 - water and dust resistant



**HMI (Display Unit)**  
Screen Type: 3.5" TFT LCD  
Resolution: 480 × 320  
Size: 90 × 60 × 22 mm  
Weight: 0.2 kg



**Charger** Model: GLRCH8  
Charging Time: 3.5h  
Charging Current: 15A  
Size: 240 × 128x 63 mm  
Weight: 2.4 kg



**DC/DC Converter** Model: GLRD16  
Input Voltage: 50–120V DC  
Output Voltage: 14.5V DC  
Current: 10A  
Size / Weight: 93 × 94 × 50 mm / 0.51 kg



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## Performance Metrics\*

Top Speed:	100 km/h
Acceleration (0–50 km/h):	2.8 s
Range:	102 km
Motor Torque:	150 N.m

(\*): Actual performance may vary based on environmental and operational conditions.

Performance data is based on laboratory conditions:

Rider plus vehicle weight 200 kg

Ambient temperature 25°C

Speed of 25 km/h



## Applications:

- Motorcycles – Urban and commuter e-powered 2-wheelers.
- Three-Wheelers & Utility Vehicles – Light commercial transport solutions for urban and industrial applications.
- Off-Road & Recreational Vehicles – Electrified lightweight trail and adventure vehicles optimized for rugged terrains.
- Off-Highway Vehicles – Agricultural ATVs, electric UTVs, and industrial transporters built for demanding work environments.
- Riding Lawn Mowers – Electrification of professional and consumer-grade mowers for sustainable landscaping.
- Marine & Specialty Vehicles – Adaptable for watercraft, electric propulsion systems, and specialized vehicle applications.
- High-Performance Electric Karting – Advanced powertrain solutions for amateur electric karting applications.

## Order Information

GLR08 Electrification Kit (72V 51Ah 8.8kW PMSM System)

**Technical Notice:** Images and specifications are for reference only. Guilera reserves the right to modify product design and features without prior notice. The latest validated technical drawing of each power electrification kit component is the only official document certifying product characteristics.

### GUILERA S.A.

Founded in 1953, Guilera S.A. specializes in advanced electronic and electromechanical systems for the automotive, off-highway, and mobility sectors.

Our products include reliable DC-DC converters, electronic power control systems for traction, advanced flasher units, and solid-state electronics.

Guilera is committed to sustainability and social responsibility, integrating eco-friendly practices and pursuing CSR certifications. Serving OEMs and Tier 1 suppliers, we continuously innovate to shape the future of transportation and mobility.

 <https://www.linkedin.com/company/guilera>

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