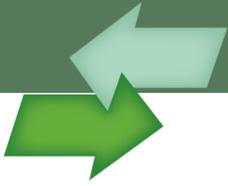
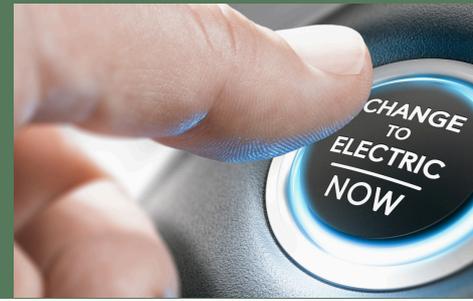


ELECTRIFICATION KIT

GLR06 / 6kW 72V 30Ah



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 GLR01 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 72V lithium battery, this system ensures high performance, efficiency, and reliability for urban, off-road, off-highway, and light-duty applications.

Benefits

- **Compact & High-Torque Performance** – 6kW peak power and 125Nm torque ensure strong acceleration and efficiency in light electric vehicles.
- **Pre-Configured for Fast Deployment** – A complete motor, controller, and battery system reduces development time and simplifies integration.
- **Optimized for Light EV Platforms** – Designed for motorcycles, small off-road vehicles, and utility applications.
- **Smart Energy Management** – FOC MTPA control optimizes battery efficiency, maximizing range and performance.
- **Built for Harsh Environments** – IP67-rated components ensure reliability in off-highway and industrial applications.

Motor Model:GLRM06

Type: PMSM

Peak Power: 6 kW

Max Shaft Torque: 125 N.m

Max Shaft RPM: 2200 rpm

Size: 226.5 × 193.7 × 157 mm

Weight: 8.8 kg



Battery Model: GLRB06.2160

Voltage: 72V (60V - 82V)

Capacity: 30Ah (2160Wh)

Discharge Rate: 3C

Size: 370 × 164 × 142 mm

Weight: 12.0 kg



Controller Model GLRC06

Control Type: FOC with MTPA algorithm

Peak Output Current: 460A

Nominal Voltage: 72V

Efficiency: >95%

Cooling System: Passive air cooling

Com. Protocol: CAN bus

Size: 269.2 × 122 × 59 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: GLRCH06

Charging Time: 3.5h

Charging Current: 10A

Size: 190 × 140 × 60 mm

Weight: 2.0 kg



DC/DC Converter Model: GLRD16

Input Voltage: 50–120V DC

Output Voltage: 14.5V DC

Current: 10A

Size: 93 × 94 × 50 mm

Weight: 0.51 kg



ELECTRIFICATION KIT

GLR06 6kW 72V 51Ah

Performance Metrics*

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

Top Speed:	85 km/h	Performance data is based on laboratory conditions:
Acceleration (0–50 km/h):	3.2 s	Rider plus vehicle weight 180 kg
Range:	86 km	Ambient temperature 25°C
Wheel Torque:	125 N.m	Speed of 25 km/h



Applications:

- Electric Mopeds – Compact and efficient urban mobility solutions for commuting and delivery services.
- Three-Wheelers & Utility Vehicles – Electrified transport solutions for light commercial and urban logistics applications.
- Off-Road & Recreational Vehicles – Lightweight electric vehicles optimized for trail riding, adventure, and recreational use.
- Off-Highway Vehicles – Agricultural ATVs, electric UTVs, and industrial transporters designed for demanding environments.
- Riding Lawn Mowers – Electrification of professional and consumer-grade mowing equipment for sustainable landscaping.
- Marine & Specialty Vehicles – Adaptable powertrain solutions for electric watercraft and specialized vehicle projects.
- Rental Electric Kart Fleets – High-efficiency electrification for commercial karting fleets, ensuring low maintenance and consistent performance.

Order Information

GLR06 Electrification Kit (72V 30Ah 6kW 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>

Carrer de Ramon Llull 8, 08750 Molins de Rei, , Barcelona (Spain) Tel.: +34 936 68 17 94 / e-mail: guilera@guilera.com

For more information write us an e-mail guilera@guilera.com or visit us at www.guilera.com

