

# White Paper: Aliant Battery – Innovation and Customization in Energy Storage Solutions

## Introduction

Aliant Battery is a benchmark in the lithium battery sector, specializing in the design and production of customized energy storage systems based on lithium iron phosphate. Founded in 2009, the brand is part of the historic publicly traded company ELSA Solutions. Headquartered in Imola (Italy), in the heart of the motor valley, and with a global presence in over 50 countries, Aliant Battery offers innovative solutions for OEMs and companies involved in the production of work vehicles and special applications that require performance, reliability, and construction flexibility.

## What Aliant Battery Does

- **Design and production of lithium batteries** for industrial applications
- **Custom (tailor-made) solutions**, both in terms of structure and electrical/data communication
- **Vertical integration**: BMS (Battery Management System) designed and manufactured internally for maximum data acquisition accuracy and operational logic flexibility
- **Certifications**: The tailor-made production of Aliant batteries allows for products capable of complying with numerous certifications (e.g., R100).

## Markets and Applications

Aliant Battery serves a wide range of sectors: - Construction vehicles, buses, and sweepers - Intralogistics (AGV/LGV, forklifts) - Earth-moving machines, aerial platforms, agricultural machinery - Marine sector, weather stations, railway vehicles - Energy storage systems, cranes, lifting systems, and special applications

## Distinctive Factors of Aliant Battery

- 1. Advanced Customization**
  - Collaborative design with the customer to integrate batteries into OEM systems
  - Flexibility in dimensional management and electrical specifications
  - Agile development process, thanks to a cutting-edge in-house R&D department
- 2. Quality and Safety**
  - Proprietary BMS for maximum reliability and monitoring
  - International certifications (e.g., R100)
  - Specific testing and inspections for each project
- 3. Continuous Innovation**
  - Ongoing investment in R&D

- Development of new technologies and adaptation to market needs

## Conclusions

Aliant Battery stands out for its ability to offer highly customized solutions, very lean and quick development process, and internationally recognized quality. The combination of innovation, customer support, and flexibility makes Aliant Battery the ideal partner for OEMs and companies aiming for excellence in their projects.

For more information: [www.go-aliant.com](http://www.go-aliant.com)