

# **HGXL100-2 Fullriver Battery: Powering Industrial Applications with Reliability**

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# **Technical Specifications That Matter**

As a member of Fullriver's deep-cycle AGM battery portfolio, the HGXL100-2 model delivers 12V power with 100Ah capacity through advanced Absorbent Glass Mat (AGM) technology. Unlike traditional flooded batteries, this sealed unit maintains electrolyte suspension through glass microfiber separators - imagine a high-tech sponge keeping chemicals perfectly positioned between lead plates.

### **Key Performance Features**

Cycling capability exceeding 500 cycles at 50% depth of discharge Low internal resistance (<=15mO) enabling 35% faster charging Vibration resistance up to 8G acceleration across 10-200Hz frequency range Operating temperature range: -20?C to 60?C (-4?F to 140?F)

## **Industrial-Grade Applications**

This workhorse shines in scenarios where conventional batteries falter. Recent case studies show:

Telecom tower backup systems achieving 98.7% uptime during grid fluctuations Autonomous guided vehicles maintaining 22-hour operation cycles in warehouse logistics Solar microgrid installations reducing diesel generator runtime by 40%

### Why Maintenance Matters Less

Fullriver's oxygen recombination efficiency (>=99%) means you'll never need to water these batteries. The valve-regulated design contains generated gases, preventing electrolyte loss - a game-changer for hard-to-access installations like underground mining equipment or marine navigation buoys.

#### Manufacturing Excellence Behind the Scenes

The secret sauce? Fullriver's vertical integration from lead alloy formulation to final assembly. Their ISO 9001-certified production lines implement:

Automated plate pasting with ?0.1mm thickness tolerance Multi-stage formation charging with adaptive voltage control 72-hour capacity verification through simulated load testing

**Real-World Durability Testing** 



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During 2024 extreme weather simulations, HGXL100-2 units withstood:

48-hour salt spray exposure (ASTM B117 standards)
Thermal shock cycles between -30?C and 70?C
Mechanical vibration equivalent to 100,000 km truck transport

**Smart Integration Capabilities** 

Modern applications demand connectivity. This battery series supports:

State-of-Charge (SOC) monitoring via Bluetooth-enabled battery management systems CAN bus integration for industrial IoT platforms

Predictive maintenance algorithms analyzing charge/discharge patterns

As renewable energy adoption accelerates (projected 12% CAGR through 2030), HGXL100-2's rapid recharge capability positions it as a cornerstone technology. Whether powering microgrids or robotic fleets, its balanced performance profile continues redefining industrial power standards.

Web: https://www.sphoryzont.edu.pl