



JYHY121000G Huanyu Battery: Powering Modern Energy Solutions

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Technical Specifications and Design Innovations

Designed for industrial applications, the JYHY121000G operates at 12V with optimized capacity configurations. Its dimensions (typically under 300mm in length) make it suitable for space-constrained installations like telecom cabinets or solar power stations. The FTF plate formation technology enhances active material utilization, achieving 15% higher energy density than conventional lead-acid batteries.

Core Performance Features

- 2,500+ deep discharge cycles at 50% DoD
- Self-discharge rate below 3% per month
- Operating temperature range: -20°C to 50°C

Certification Landscape

Huanyu's quality management system holds ISO 9001:2015 certification, with product approvals including UL 1973 for stationary storage and IEC 62619 for industrial applications. The Gold Sun Program certification specifically qualifies this model for photovoltaic energy storage projects in China's renewable energy sector.

Industry Applications

Case Study: Urban Data Center Backup

A Shanghai cloud service provider deployed 800 units of JYHY121000G in 2024, achieving 99.999% power availability during grid fluctuations. The installation demonstrated 72-hour runtime at 30% load capacity, with maintenance costs 40% lower than previous VRLA solutions.

Emerging Market Adaptation

In Southeast Asian microgrid projects, these batteries show remarkable humidity resistance - a critical advantage in tropical climates where 85% of battery failures relate to corrosion issues. Field data from Indonesian installations reveal 98.2% performance retention after 18 months of operation.

Supply Chain and Warranty Structure

Primary distributors like Beijing Desheng Jinxuan Technology offer 2-year full replacement warranties, extending to 5 years for properly maintained systems. Regional service centers maintain 72-hour response times for critical infrastructure customers. Current market pricing shows 10-15% cost advantages over comparable European brands, though lead times can extend to 6 weeks during peak demand periods.

Environmental Compliance

The battery's closed-loop recycling system achieves 98% material recovery rates, meeting China's latest



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Extended Producer Responsibility regulations. Recent upgrades include RFID tracking chips for lifecycle monitoring - imagine each battery having its "digital passport" from factory to recycling center.

Future-Ready Design Elements

Pre-configured BMS communication ports (RS485/CAN)

Stackable configuration for modular capacity expansion

V0 flame-retardant ABS casing options

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