



Decoding LGP12/9 Shike Power: Technical Specifications and Industrial Applications

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Battery Architecture and Performance Parameters

The 12V9AH LGP12/9 battery employs advanced AGM (Absorbent Glass Mat) technology, featuring recombinant electrolyte absorption within fiberglass separators. This maintenance-free design achieves 99% gas recombination efficiency, making it ideal for vibration-intensive environments. With a cycle life exceeding 500 cycles at 50% DOD (Depth of Discharge), it demonstrates superior performance compared to conventional flooded batteries in deep-cycle applications.

Key Technical Specifications:

Nominal voltage: 12VDC ±1%

Capacity rating: 9Ah @ C/20 rate to 10.5V

Internal resistance: ≤25mΩ at 25°C

Self-discharge rate: ≤3% per month at 20°C

Operating temperature range: -20°C to 60°C

Cross-Industry Implementation Scenarios

Imagine a hospital backup system surviving a 72-hour blackout - that's where the LGP12/9 shines. Its dual capability in high-rate discharge and deep cycling makes it the Swiss Army knife of power solutions. Telecom operators report 98.7% uptime when deploying these batteries in remote base stations, while solar installers praise its tolerance for partial state-of-charge operation.

Application Matrix:

Medical: Wheelchair power systems (EN 12184 compliant)

Telecom: BTS backup with 15-minute recharge capability

Renewable Energy: Solar charge acceptance up to 0.3C rate

Security: 36-month standby duration in emergency lighting

Certification Landscape and Compliance

Beyond basic CE marking, the LGP12/9 series meets stringent UL 62368-1 safety standards for ICT equipment. Its military-grade variants (MIL-PRF-32565 compliant) feature tin-plated brass terminals resistant to salt spray corrosion. The ISO 9001:2015 certified manufacturing process ensures batch-to-batch consistency within ±2% capacity tolerance.

Evolution of Valve-Regulated Technology



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The battery's pressure-relief valves operate within 7-35 kPa range, a critical feature perfected since POWERLINE's 1960s AGM development. Modern iterations incorporate carbon-enhanced negative plates that reduce sulfation by 40% in cyclic applications. Compared to gel counterparts, these batteries maintain 15% higher charge acceptance after 200 cycles.

Procurement Considerations

Current market data shows 12% lower total cost of ownership compared to equivalent VRLA alternatives over 5-year service life. Bulk purchasers should note the 95RMB/unit price applies to minimum 50-unit orders, with lead times averaging 7 working days for domestic shipments. The dual-terminal design accommodates both compression and solder lug connections, providing installation flexibility.

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