



# WM51V Wall Mount Battery: Shenzhen Solarlink's Energy Storage Breakthrough

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### The New Face of Home Energy Solutions

Imagine your living room wall doing double duty as a power reservoir. That's exactly what Shenzhen Solarlink New Energy achieves with their WM51V wall-mounted battery system. This sleek energy storage unit redefines spatial efficiency in residential power management, turning vertical surfaces into clean energy hubs.

### Engineering Marvel in Compact Design

Unlike traditional battery banks that squat in basements, this LiFePO<sub>4</sub> (lithium iron phosphate) system boasts:

- 5.12kWh storage capacity in a 60cm x 40cm frame
- Modular expansion up to 25kWh
- IP65 waterproof rating for garage or patio installation
- Silent operation with < 25dB noise emission

### Solar Synergy That Actually Works

When paired with rooftop PV panels, the WM51V demonstrates 98.3% round-trip efficiency in field tests - that's like losing only 2 teaspoons from a 5-liter water transfer. Its dynamic load balancing automatically prioritizes:

- Direct solar consumption
- Time-of-use rate optimization
- Emergency backup reserves

### Safety Meets Smart Technology

The built-in BMS 4.0 (Battery Management System) performs 15,000 data checks per second - faster than a hummingbird flaps its wings. It actively prevents:

- Thermal runaway (even at 60°C ambient)
- Overcharge/Deep discharge
- Cross-circuit anomalies

### Industry-Leading Performance Metrics

Third-party testing reveals remarkable stats:



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Cycle Life 6,000 cycles @ 80% DoD

Peak Output 5kW for 3 seconds

Standby Loss

Web: <https://silichibaby.co.za>