



# Understanding LP15-24100: Technical Specifications and Applications

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### What Is LP15-24100?

LP15-24100 refers to a specific model designation used across multiple industries, though its exact meaning depends on application context. While this alphanumeric code appears in photovoltaic energy storage systems, electronic components, and industrial equipment, our analysis focuses on its most common technical implementations.

### Core Technical Parameters

Voltage range: 24V DC nominal (operating range 21-29V)

Capacity: 100Ah lithium iron phosphate (LiFePO<sub>4</sub>) chemistry

Cycle life: >=3,000 cycles @ 80% depth of discharge

Dimensions: Typically 330x175x215mm for energy storage units

### Key Application Scenarios

#### 1. Residential Energy Storage Solutions

In photovoltaic systems like MUST's wall-mounted units, LP15-24100 batteries enable 25.6V configurations ideal for:

Peak shaving during high electricity demand

Emergency backup power for critical loads

Time-of-use optimization with smart inverters

#### 2. Industrial Control Systems

As pushbutton switches in manufacturing environments, LP15-series components provide:

IP65-rated dust/water resistance

500,000 mechanical operations lifespan

Illuminated indicators for status monitoring

### Performance Benchmarks

Third-party testing of comparable LiFePO<sub>4</sub> batteries shows:

Parameter



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Standard Value

LP15-24100 Performance

Energy Density

120-140Wh/kg

135Wh/kg

Charge Efficiency

95-97%

96.2%

Self-Discharge

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