



StackArk-LV Series Stackable Lithium Battery: Powering the Future of Energy Storage

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Modular Energy Solutions for Modern Demands

Imagine building with LEGO blocks, but instead of plastic bricks, you're stacking 10.24KWH energy units to create a 20.48KWH powerhouse. That's the engineering marvel behind SunArk Power's StackArk-LV series, where stackable lithium batteries redefine flexible energy storage.

Technical Specifications That Matter

Voltage range: 48V-51.2V system compatibility

Cycle life: 6,000+ deep discharge cycles

Modular design: 5.12KWH base unit expansion

Operating temperature: -20°C to 55°C

Why Professionals Choose Stackable Systems

The 15.36KWH configuration recently powered a chain of 7-Eleven stores through California's rolling blackouts. Store managers reported 18 hours of uninterrupted refrigeration - crucial for preserving \$15,000 worth of perishables during grid failures.

Smart Energy Management Features

Real-time SOC monitoring via Bluetooth

Parallel connection capability for 16+ units

Built-in battery management system (BMS)

IP65 rating for outdoor installations

Installation Flexibility in Action

A solar farm in Arizona achieved 23% cost reduction using the 20.48KWH modules as "energy shock absorbers". The stackable design allowed installation around existing infrastructure - no need for costly concrete pads or specialized racks.

Performance Comparison Table

Model

Cycle Efficiency

Peak Output



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Footprint

10.24KWH

98.2%

5kW

0.35m²

15.36KWH

97.8%

7.5kW

0.52m²

20.48KWH

97.5%

10kW

0.68m²

Safety Meets Innovation

Unlike traditional lead-acid batteries that could literally weigh down your plans (a 20KWH lead system tips scales at 600kg), these lithium batteries keep it lean at 215kg. The UL1973-certified modules employ multi-stage thermal runaway protection - think of it as having both airbags and seatbelts for your energy storage.

Maintenance Advantages

No equalization charging required

Automatic cell balancing

5-year performance warranty

Remote firmware updates

From residential solar arrays to mobile power stations, the StackArk-LV series demonstrates how modular lithium technology adapts to energy demands like water filling a container. The real magic happens when you start stacking possibilities - whether that's adding capacity as your business grows or creating hybrid systems



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with existing infrastructure.

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