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

Footprint

10.24KWH
98.2%
5kW
0.35m?

15.36KWH
97.8%
7.5kW
0.52m?

20.48KWH
97.5%
10kW
0.68m?

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

with existing infrastructure.

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