50kva 100kWh Solar Pv Batteries Solution The Perfect All-in-One Solar Storage System for Your Business

Our Product Introduction

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Basic Information

- Place of Origin: SHENZHEN
- Brand Name: Daxin
- Certification: /
- Model Number: DX-BESS-50K100
- Minimum Order Quantity: 1 SET
- Packaging Details: Wooden case with pallet
- Delivery Time: 20-35 days
- Payment Terms: T/T
- Supply Ability: 6000-8000 Sets/month

Product Specification

- System Configuration: Outdoor Cabinet+Inverter+Battery
- Battery Module Nominal Voltage (V):   512V
- Max Charge Current: 100A
- Cycle Life: ≥6500
- Max. PV Input Power (W):   65000
- MPPT Voltage Range (Vdc):   150-850
- Highlight: **50kva Solar Pv Batteries, All-in-One Solar Pv Batteries, 100kWh Solar Pv Batteries**

More Images

Product Description

50kVA/100kWh Solar PV Battery Energy Storage System for Large-Scale Renewable Energy Storage

System Introduction:

The DX-BESS-50K100 is a high-performance Battery Energy Storage System (BESS) designed for commercial and industrial solar PV batteries solutions, delivering 100kWh usable capacity with LiFePO4 technology for safety, efficiency, and scalability.

Why Choose DX-BESS-50K100?

All-in-One Solar PV Battery System: Integrates BESS, ESS, and hybrid inverter for turnkey deployment.
Grid Resilience: Supports black start and off-grid operations.
Future-Proof: Modular design scales with energy demands.

Technical Specifications

System Overview

Parameter	Specification
Nominal Output Power	50kW (UPS)
Energy Capacity	102.4kWh (100kWh usable)
Battery Chemistry	LiFePO4 (512V, 200Ah)
Operating Voltage	400-800VDC
Enclosure Protection	IP55
Dimensions (W×D×H)	1400×1100×1650mm (excl. inverter)
Weight	1350kg (excl. inverter)

Inverter Details
MPPT Range: 150-850V
THD: <3%
Communication: CAN, RS485, WiFi, Ethernet

Battery Performance
Cycle Life: 6500+ cycles (@0.5C, 25°C)
Operating Temp.: Charge: 0–55°C / Discharge: -20–55°C

Key Features:

1. Intelligent & Reliable Energy Storage System (ESS)
Modular Design: 10 x 10.24kWh battery modules (total 102.4kWh) in 400-800VDC range.
Built-in Air Conditioning: Maintains battery temperature <40°C for optimal performance.
Smart BMS & EMS:
Active monitoring and protection for each solar PV battery module.
Supports black start, AC/DC coupling, and grid independence.

2. High-Efficiency Hybrid Inverter
50kW output, 97.6% peak efficiency, compliant with VDE-AR-N4105, CEI 0-21, IEC 62109.
4 MPPTs, 150-850V DC range, and 65000W max PV input.
On/Off-Grid Ready: Seamless transition for backup power.

3. Safety & Durability
Cobalt-free LiFePO4 cells: Non-toxic, ≥6500 cycles (@70% EOL).
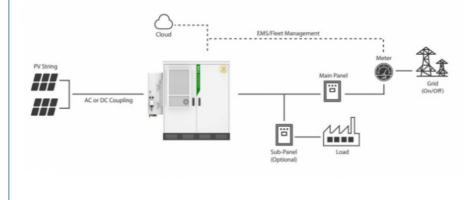IP55 enclosure: Suitable for indoor/outdoor installation.
Aerosol fire extinguishing and multi-protection (overcharge, short circuit, etc.).

4. Scalable & Compliant
Parallel support: Up to 10 systems for expanded capacity.
Certifications: UN38.3, IEC 62619, CE, AS4777.2, G99.

System Diagram:

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