

Deye BOS-A

7.68 kWh LiFePO4 commercial battery module with 160A output and 3U rack design.

Models Covered: BOS-A

Manufacturer: Ningbo Deye Technology Co., Ltd. (Stock Code: 605117.SH)

Application: The Deye BOS-A is an advanced commercial battery storage module designed for scalable C&I energy systems. With 7.68 kWh per module, 200Ah capacity, and support for 160A current output, it delivers high performance for demanding applications. The 3U rack design connects to two inverter DC interfaces for flexible system configurations from 54-161 kWh.

Technical Specifications

Parameter	BOS-A
General Data	
Applicable / Compatible Inverter Rating	50 kW – 100 kW
Electrical / AC Output Data	
Rated AC Power	160 W
Grid Switching / Transfer Time	<10 ms
Max Current	160 A
Module Nominal Voltage	38.4 V
Battery Data	
System Energy	54-161 kWh
Battery Type / Chemistry	LiFePO4
Cycle Life	≥6000 cycles
Module Capacity	200 Ah
Module Energy	7.68 kWh
Number of Modules in Series	7-21
Protection Features	
Certification / Compliance Safety	CE/IEC62619/IEC 62040/ UN38.3 /VDE-2510
Mechanical Data	
Design / Form Factor	3U Rack Mount
Operating Conditions	
Charging Temperature Range	0 to 55 °C
Discharging Temperature Range	-20 to 55 °C
Relative Humidity	5% – 85%
Communication	
Communication Interface	CAN2.0

Note: Specifications are based on the official Deye BOS-A datasheet. Values may be subject to change; always verify against the latest manufacturer documentation before system design and procurement.

Configurations & shipping weights

Configuration	Weight	Dimensions (W × D × H)
10 battery modules	728 kg	610 × 610 × 1900 mm
13 battery modules	934 kg	610 × 610 × 2350 mm
16 battery modules	1161 kg	1320 × 610 × 1600 mm
21 battery modules	1501 kg	1320 × 610 × 1900 mm

This listing covers several shippable configurations. Each row is the manufacturer's stated figure for that build; the page weight above is the smallest one, which is what a single unit ships at.

Availability & grid compliance in UAE

Market	UAE
Grid authority / regulator	DEWA, ADDC, SEWA
Quotation currency	AED
Support hours timezone	Asia/Dubai
Delivery & installation coverage	Dubai, Abu Dhabi, Sharjah, Ajman, Ras Al Khaimah

Figures on this page are the manufacturer's own, measured at the test conditions the datasheet states — they do not change by country. What changes is the approval that has to be met before the unit is energised: in UAE that is DEWA, ADDC, SEWA. Confirm the grid code, import requirements and any local certification with them, or with us, before you order.

Key Features & Technical Highlights

- **160A High Output:** Powerful current output for demanding applications
- **3U Rack Design:** Connects to two inverter DC interfaces
- **54-161 kWh Systems:** 7-21 packs in series with 50-100kW inverters
- **<10ms Switching:** Fast on-grid to off-grid transition
- **10-Year Warranty:** Comprehensive protection coverage
- **Intelligent BMS:** Auto charge/discharge and cell balancing

Frequently Asked Questions

- ▶ How many BOS-A modules can I connect?
- ▶ What is the grid switching time?
- ▶ What makes the 3U rack design special?
- ▶ What regions is the BOS-A available in?

Official Source & Documentation

This technical datasheet is derived from official manufacturer documentation provided by **Ningbo Deye Technology Co., Ltd.** For the latest specifications, firmware updates, and official documentation, visit the manufacturer's website.

- **Manufacturer Website:** www.deyeinverter.com
- **Technical Support:** sales@deyeinverters.net | +971 4 255 0887
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Disclaimer: All specifications and technical data presented on this page are based on the official Deye BOS-A datasheet published by Ningbo Deye Technology Co., Ltd. Specifications are subject to change without notice. Always verify against the latest manufacturer documentation at deyeinverter.com before system design, procurement, or installation. Compliance with local regulations, grid codes (DEWA, ADDC, SEWA) and utility requirements in UAE is the responsibility of the system designer/installer.