

Deye BOS-W

5.12 kWh C&I battery with 6000+ cycles and -20°C to 55°C operating range.

Models Covered: BOS-W

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

Application: The Deye BOS-W is a small-scale C&I energy storage solution with 5.12 kWh capacity. Featuring LiFePO₄ chemistry, 6000+ cycle life, smart protection against over-discharge/charge/current/temperature, and flexible parallel expansion, it's engineered for commercial and industrial applications requiring reliable backup power.

Technical Specifications

Parameter	BOS-W
General Data	
Warranty	5 years
Electrical / AC Output Data	
Nominal Voltage	51.2 V
Module Nominal Voltage	51.2 V
Status Indicator	Yellow: Battery High Voltage Power On
Battery Data	
Battery Energy Capacity	5.12 kWh
Nominal Capacity	100 Ah
Battery Type / Chemistry	LiFePO4
Cycle Life	6000+ cycles
Max Charge/Discharge Current	50 A
Max Continuous Charge/Discharge Current	100 A
Module Capacity	100 Ah
Module Energy	5.12 kWh
Peak Charge/Discharge Current	125 A
Recommended Charge/Discharge Current	50 A
Recommended DoD	90%
Protection Features	
IP Rating	IP20
Certification / Compliance Safety	UN38.3
Mechanical Data	
Design / Form Factor	Rack Mounting
Installation / Mounting	Mounting
Operating Conditions	

Parameter	BOS-W
Max Altitude	3000 m
Operating Temperature	-20 to 55 °C
Relative Humidity	5 ~ 85%
Storage Temperature Range	0 ~ 35 °C
Communication	
Communication Interface	CAN2.0 / RS485

Note: Specifications are based on the official Deye BOS-W 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)
BOS-W25 — 5 modules · 25.6 kWh	290 kg	530 × 602 × 1629 mm
BOS-W40 — 8 modules · 40.96 kWh	428 kg	530 × 602 × 1629 mm
BOS-W60 — 12 modules · 61.44 kWh	622 kg	530 × 602 × 2219 mm
BOS-W85 — 17 modules · 87.04 kWh	883 kg	1060 × 602 × 1629 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

- **C&I Ready:** Designed for commercial/industrial use
- **Smart Protection:** Over-discharge, over-charge, over-current, temp
- **Low Self-Discharge:** Up to 6 months without charging
- **Parallel Expansion:** Multiple modules in parallel
- **Remote Upgrades:** USB and remote firmware updates
- **Wide Temp Range:** -20°C to 55°C operation

Frequently Asked Questions

- ▶ Is the DEYE BOS-W suitable for hot climates like the Gulf?
- ▶ What inverters is the BOS-W compatible with?
- ▶ How long can the battery sit without charging?

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
- **Sales Inquiries:** sales@deyeinverters.net | +971 4 255 0887

Disclaimer: All specifications and technical data presented on this page are based on the official Deye BOS-W 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.

Last Updated: 2026-01-24 | **Document Version:** 2.0 | **Data Source:** Deye Official Datasheet | **Published by:** DEYE MJS Solutions (deyeinverters.net)