

Deye RW-L5.1

5.12 kWh IP65 outdoor-rated battery with 200A peak discharge and built-in circuit breaker.

Models Covered: RW-L5.1

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

Application: The Deye RW-L5.1 is a robust home energy storage solution with IP65 protection for indoor and outdoor installation. With 5.12 kWh capacity, 200A peak discharge current, and intelligent BMS with built-in circuit breaker, it delivers safe and reliable performance in any environment.

Technical Specifications

Parameter	RW-L5.1
Electrical / AC Output Data	
Max Parallel Units	32
Nominal Voltage	51.2 V
Operating Voltage Range	44.8~57.6 V
Energy Throughput	8MWH kWh
Battery Data	
Battery Energy Capacity	5.12 kWh
Nominal Capacity	100 Ah
Battery Type / Chemistry	LiFePO4
Cycle Life	≥6000 cycles
Max Continuous Charge/Discharge Current	125 A
Peak Charge/Discharge Current	200 A
Recommended DoD	90%
Protection Features	
IP Rating	IP65
Built-in Circuit Breaker	Built-in
Certification / Compliance Safety	UN38.3, MSDS
Mechanical Data	
Installation / Mounting	Wall-Mounted, Floor-Mounted
Operating Conditions	
Charging Temperature Range	0 to 55 °C
Discharging Temperature Range	-20 to 55 °C
Max Altitude	≤2000m
Operating Temperature	15°C~35°C °C
Relative Humidity	0 ~ 95%

Parameter	RW-L5.1
Storage Temperature Range	0°C~35°C °C
Communication	
Communication Interface	CAN2.0, RS485
Display	LCD(SOC and working state)

Note: Specifications are based on the official Deye RW-L5.1 datasheet. Values may be subject to change; always verify against the latest manufacturer documentation before system design and procurement.

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

- **IP65 Protection:** Outdoor-rated for any installation
- **200A Peak Discharge:** High power for demanding loads
- **Built-in Circuit Breaker:** Enhanced safety protection
- **Scalable to 32 Units:** Expand capacity as needed
- **6000+ Cycle Life:** Long-lasting performance
- **LED Status Indicator:** Easy SOC monitoring

Frequently Asked Questions

- ▶ What inverters is the DEYE RW-L5.1 compatible with?
- ▶ Is the DEYE RW-L5.1 suitable for hot climates like the Gulf?
- ▶ Can the RW-L5.1 be installed outdoors?
- ▶ What makes the RW-L5.1 different from SE-F5?

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
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Disclaimer: All specifications and technical data presented on this page are based on the official Deye RW-L5.1 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)