Deye WD-G12100 / WD-G12200

1.28 kWh 12V modular battery with 100A discharge and universal inverter compatibility.

Models Covered: WD-G12100, WD-G12200

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

Application: The Deye WD-G12100 is a versatile 1.28 kWh 12V LiFePO4 battery designed for backup power and residential applications. With 100Ah capacity, 100A continuous discharge (200A peak), compatibility with any brand inverter, and flexible series/parallel configurations up to 51.2V, it's the perfect building block for custom energy storage systems.

Technical Specifications

Parameter	WD-G12100	WD-G12200
Electrical / AC Output Data		
Max Parallel Units	10 units	
Nominal Voltage	12.8 V	
Operating Voltage Range	11.2~14.6 V	
Battery Data		
Battery Energy Capacity	1.28 kWh	2.56 kWh
Nominal Capacity	100 Ah	200 Ah
Battery Type / Chemistry	$LiFePO_4$	
Cycle Life	≥6000 cycles	
Max Charge Current	100 A	—
Max Continuous Charge/Discharge Current	100 A	200 A
Max Discharge Current	100 A	—
Max Series Units	4 units (51.2V)	
Peak Charge/Discharge Current	200 A	300 A
Recommended DoD	80%	
Cell / Pack Configuration	Prismatic, 1P4S	—
Protection Features		
IP Rating	IP20	—
Mechanical Data		
Installation / Mounting	Stack-Mounted, Floor-Mounted	
Container / Case Material	ABS + PC	—
Operating Conditions		
Charging Temperature Range	0 to 55 °C	—
Discharging Temperature Range	-20 to 55 °C	—
Max Altitude	≤2000m	

Parameter	WD-G12100	WD-G12200
Operating Temperature	Discharge: -20°C～55°C °C	
Relative Humidity	0 ~ 95%	
Storage Temperature Range	0～35°C °C	
Communication		
Communication Interface	RS485	

Note: Specifications are based on the official Deye WD-G12100 / WD-G12200 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

- **12V System:** Universal inverter compatibility
- **200A Peak Current:** High power capability
- **Flexible Config:** Series to 51.2V, parallel to 10 units
- **Intelligent BMS:** Built-in protection and monitoring
- **LED Indicators:** SOC and status display
- **Easy Maintenance:** External power recharging support
- **300A Peak Current:** High power capability
- **Firmware Updates:** RS485 firmware upgrade support

Frequently Asked Questions

▶ Is the DEYE WD-G12100 suitable for hot climates like the Gulf?

▶ Can I use this with any inverter?

▶ How can I expand the system?

▶ Is the DEYE WD-G12200 suitable for hot climates like the Gulf?

▶ How does this compare to the WD-G12100?

▶ What is the maximum system configuration?

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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