

Deye GE-F120

122.8kWh C&I energy storage with 30-50kW power, integrated EMS/BMS/inverter, and $\geq 6,000$ cycles.

Models Covered: GE-F120

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

Application: The Deye GE-F120-2H6/3H6/4H6 series delivers comprehensive C&I energy storage for Australia. Featuring LiFePO_4 chemistry, 122.8kWh energy configuration, 500-700V operating voltage, 89% max RTE, integrated EMS/hybrid inverter/BMS, power supply redundancy, black start and off-grid support, flexible expansion up to 3,600kWh, $\geq 6,000$ cycles, 5-level safety protection with aerosol fire suppression, and IP65 protection, it's the long-lasting and reliable choice for commercial applications.

Technical Specifications

Parameter	GE-F120
General Data	
Warranty	10 years
Electrical / AC Output Data	
Rated AC Power	50000 W
Max Parallel Units	10
Operating Voltage Range	500~700 V
Grid Type / Phase	3L/N/PE
Battery Data	
Battery Energy Capacity	122.8 kWh
Round-Trip Efficiency	89%
Battery Type / Chemistry	LiFePO4
Cycle Life	≥6,000 cycles
End-of-Life Capacity	70%
Maximum Charging Efficiency	97.6%
Scalability / Max Expandable Capacity	3,600 kWh
Protection Features	
IP Rating	IP65
Certifications	UN38.3, IEC62619, IEC61000,
Mechanical Data	
Installation / Mounting	Floor-Mounted
Operating Conditions	
Operating Temperature	Charge: 0~55/Discharge: -20~55 °C
Relative Humidity	15%~85% (No condensing)
Storage Temperature Range	0~35 °C
Communication	

Parameter	GE-F120
BMS Communication	CAN
Communication Interface	ETH/4G

Note: Specifications are based on the official Deye GE-F120 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

- **LiFePO₄ Chemistry:** Stable, long-life cells
- **Fire Suppression:** Aerosol fire protection
- **Integrated Tech:** EMS, hybrid inverter & BMS
- **Flexible Expansion:** Up to 3,600kWh off-grid
- **5-Level Safety:** Comprehensive protection
- **Black Start:** Off-grid operation support

Frequently Asked Questions

► Is the DEYE GE-F120 suitable for hot climates like the Gulf?

► What are the different H6 models?

► Can I expand this system?

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 GE-F120 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.

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