

BL5120

Stackable LiFePO4 Battery Module



5.12 kWh | 51.2 V | 100 Ah | Expandable up to 40.96 kWh

The Enerup BL5120 is a 51.2 V stackable LiFePO4 battery module for residential and light-commercial energy storage systems. Multiple modules can be stacked to expand system capacity up to 40.96 kWh.

KEY FEATURES

5.12 kWh Battery Module

Base 51.2 V / 100 Ah module for modular storage systems.

Expandable System Capacity

Stackable configuration supports expansion up to 40.96 kWh.

Smart BMS

Integrated BMS supports safe operation and system communication.

Multi-Layer Protection

Overcharge, overdischarge, overcurrent, short-circuit, and overtemperature protection.

High Cycle Life

More than 5000 charge/discharge cycles under specified conditions.

LCD Display

Front display provides operating status visibility.

Communication

CAN and RS485 communication ports.

Long Service Life

5-year warranty for stable long-term operation.

QUICK SPECIFICATIONS - BL5120

Model	BL5120
Battery Type	LiFePO4
Nominal Voltage	51.2 VDC
Nominal Capacity	100 Ah
Nominal Energy	5120 Wh / 5.12 kWh
Expandable System Capacity	Up to 40.96 kWh
Float Charge Voltage	56.0 VDC
Operating Voltage Range	40.0-58.4 VDC

TECHNICAL SPECIFICATIONS - BL5120

General

Model	BL5120
Battery Type	LiFePO4
Nominal Voltage	51.2 VDC
Nominal Capacity	100 Ah
Nominal Energy	5120 Wh / 5.12 kWh
Expandable System Capacity	Up to 40.96 kWh

Electrical

Float Charge Voltage	56.0 VDC
Operating Voltage Range	40.0-58.4 VDC
Max. Continuous Charge Current	50 A
Max. Continuous Discharge Current	100 A
Max. Pulse Discharge Current	150 A / 1 s

Environment

Working Temperature	-10 °C to +50 °C
Storage Temperature	0 °C to 30 °C
Humidity	0-95% RH, non-condensing

Mechanical

Product Size (L x W x H)	670 x 460 x 175 mm
Net Weight	45.0 kg
Gross Weight	48.0 kg

Certification & Service

Protection Rating	IP20
Certifications & Standards	CE, UN38.3, MSDS, IEC
Warranty	5 years

Specifications are subject to change without notice. Product appearance may vary by configuration. For technical support, warranty service, and certification documentation, contact your Enerup distributor.