

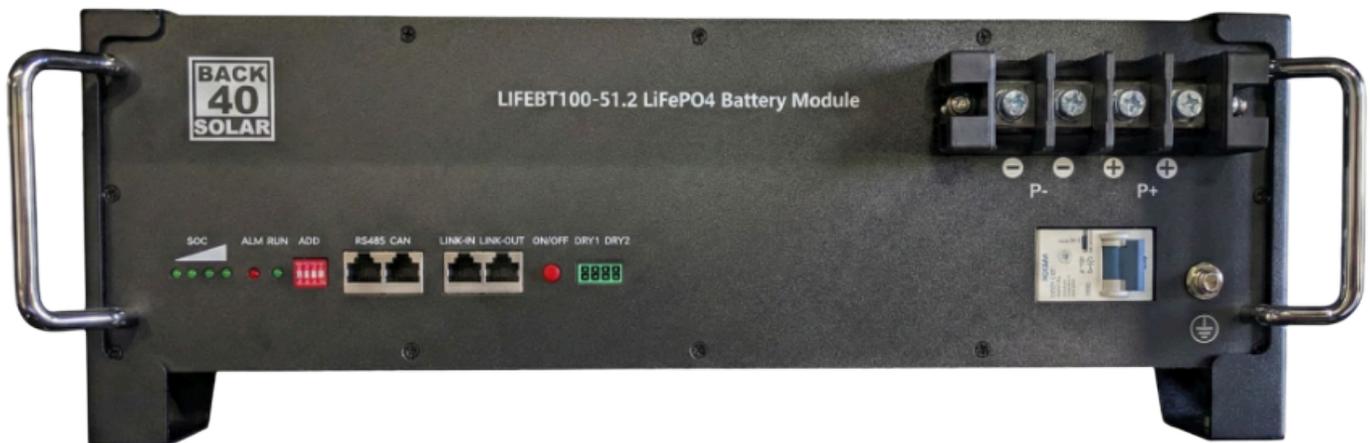


Back 40 Solar Lithium Iron Phosphate Batteries

The **Back 40 Solar LIFEBT100-51.2** is a 51.2V Lithium Iron Phosphate (LiFePO₄) battery module engineered for demanding off-grid, backup, and industrial applications. With a standard 19-inch rack-mount form factor and high-density energy storage, the LIFEBT100-51.2 offers a modular solution that scales effortlessly from single-unit backup to large-scale energy banks.

Key Features:

- Model: LIFEBT100-51.2
- All-Weather Performance: Automatic internal heating system allows for charging at -40°C, eliminating the need for external climate control in harsh environments.
- High-Safety Chemistry: Built with stable LiFePO₄ cells and a comprehensive BMS (Battery Management System) that protects against over-voltage, under-voltage, over-current, and short circuits.
- Long Service Life: Rated for 6,000+ cycles at 80% Depth of Discharge (0.2C, 25°C), ensuring a design life of up to 20 years.
- Universal Communication: Equipped with CAN and RS485 interfaces for seamless integration with major inverter brands.
- True Scalability: Supports parallel connection of up to 15 units for a total system capacity exceeding 76 kWh.
- Certified Reliability: Meets rigorous safety standards including UL1973, UL9540A, IEC 62619, CE, and UN38.3.





The Back 40 Solar LIFEBT100-51.2 Lithium Iron Phosphate Batteries

Rated Voltage	51.2V
Rated Capacity	100Ah
Rated Energy	5.12kWh
Max Charging Current	100A
Max Discharging Current	100A
Lifetime (25°C)	20 Years
Life Cycles (80% DOD, 0.2C, 25°C)	6,000
Max Charging Voltage	57.6V
Over Discharge Voltage	44.8V
Max Parallel Capacity	Up to 15 Units
Communication Interfaces	CAN / RS485
Certifications	UL1973, UL9540A, IEC 62619, CE, UN38.3
Storage Time / Temperature	6 mo@25°C/77°F, 3 mo@35°C/95°F, 1 mo@45°C/113°F
Charging Temperature Range	-40°C ~ 55°C (with internal heater)
Discharging Temperature Range	-40°C ~ 55°C



Dimensions

17.25" x 15.5" x 5.1"

Weight

89.3 lbs