



BAML48V100AH

Maple Leaf 48v 100Ah Server Rack Beaver

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Introducing the new Maple Leaf 48V100A Server Rack Beaver Battery—an advanced energy storage solution prioritizing safety and adaptability. Crafted with LiFePO4 chemistry, offering a secure and reliable power source. Its modular design supports up to 32 batteries, featuring a built-in pre-charge circuit.

This innovative battery includes automatic dynamic addressing for multiple units and a robust Built-in Battery Management System (BMS) that ensures protection from various risks. With LiFePO4 as the cathode material and automatic balancing, the Battery 48V100A guarantees an extended cycle life.

Warranty



**Power
Output
Warranty**

Product Certification



Key Features



Safety-Optimized LiFePO4 Chemistry

Compliant highest international safety & transport standards with also prioritizing user safety



Expandable Modular Design

Flexibility with the modular and expandable design, supporting the connection of up to 32 batteries.



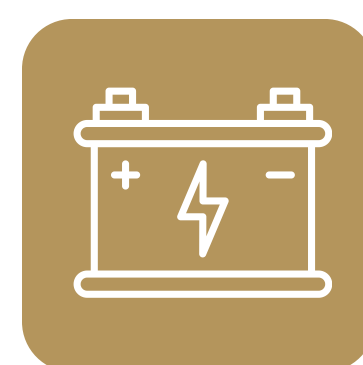
Pre-Charge Circuit for Smooth Connections

Ensures a smooth power transfer, averting rush currents during connections to various inverter/chargers.



Intelligent Dynamic Addressing

Smart feature streamlines the setup process, ensuring seamless communication between connected units.



Comprehensive BMS and Smart Functionality

Providing protection against over-discharge, over-charge, overcurrent, short-circuit, and high/low temperatures.



Other Multiple Features

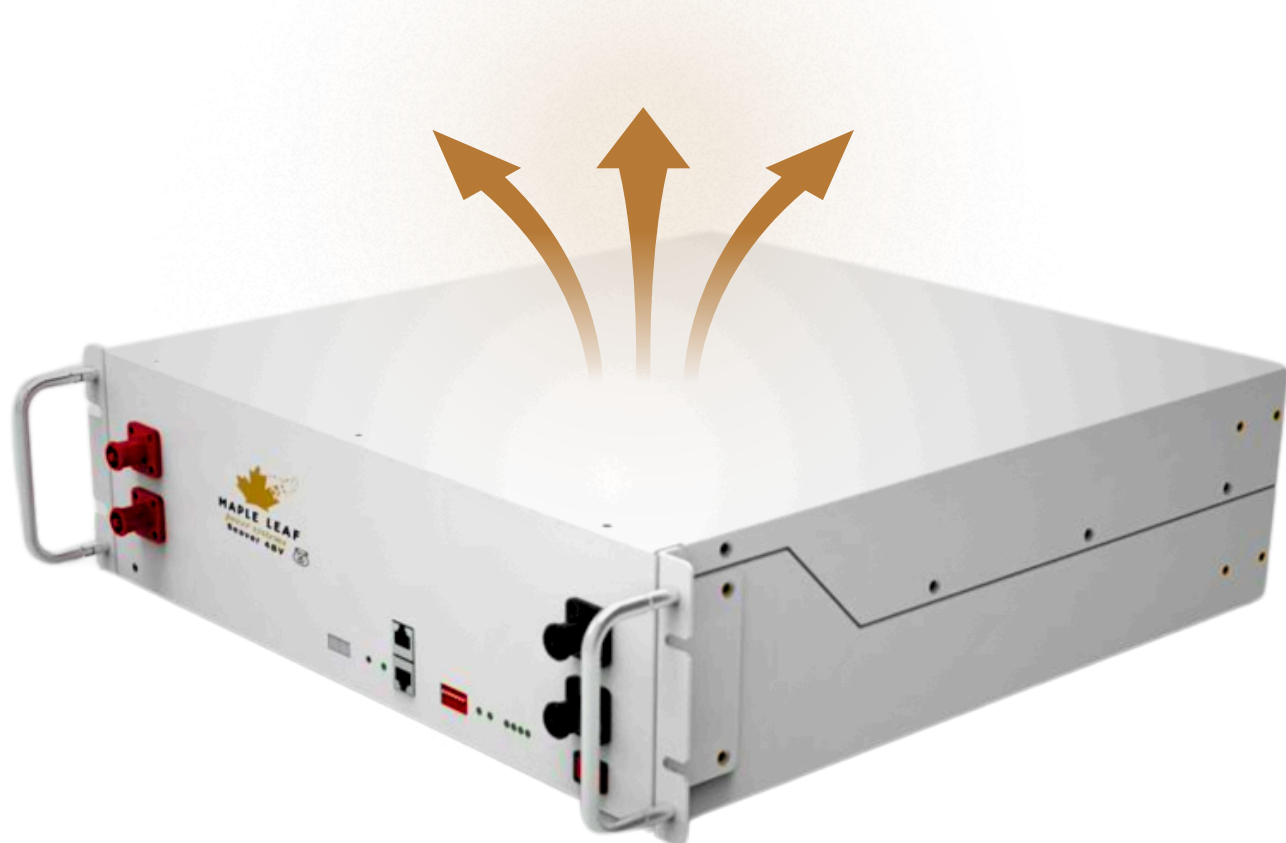
Compact, lightweight, and equipped with LED display, CAN/RS485 port, and rapid shut-down for the North American market.

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Tech & Specs



Model	BAML48V100AH	BAML48V100AHH
Heater Option	N/A	Built-In Heater
IP Grade	IP20	IP20
Charge Voltage	56.0V	58.4V
Float Charge Voltage	54.6V	54.6V
Nominal Energy@0.2C	5.12kWh	5.12kWh
Usable Energy@0.2C	4.92kWh	4.92kWh
Nominal Capacity@0.2C	100Ah	100Ah
Dimension	482*133.5*460mm(18.9*5.2*18.1)	482*133.5*460mm (18.9*5.2*18.1 inch)
Weight	~46kg(101lb)	~46kg(101lb)
Standard Discharge Current	≤50A	≤50A
Max. Charge Current	70A	70A
Internal Resistance	≤30mΩ	≤30mΩ
Chemical	Lithium Iron Phosphate Battery	Lithium Iron Phosphate Battery
Max. Discharge Current	100A (initial temp. ≤30°C)	100A (initial temp. ≤30°C)
Peak Discharge Current	101~119A@5mins 120~200A@15S	101~119A@5mins 120~200A@15S
Communication	RS485/CAN	RS485/CAN
Max. Parallel Number	32pcs	32pcs
Rated Voltage	51.2V	51.2V
Max. Voltage Range	44.8~57.6V, Shipping Voltage>51.2V	44.8~57.6V, Shipping voltage>51.2V

Temperature

Operation Temperature 1	Charge: -5~50°C, Discharge: -20~50°C	Discharge:-10~50°C (Beaver 48VH Model)
Storage Temperature @ Off Mode	0°C<T<30°C -10°C<T<45°C Recommended Environment 15~35°C, 5~75%RH	<6 months <3 months

*** The information and measurements in this datasheet have been assessed under Standard Test Conditions, so there may be slight differences from real-world findings. Maple Leaf and its associated entities retain the right to change the information given within this datasheet without prior notice. Our goal is to provide clients with the most recent product information. You can find these datasheets in the downloading section of our product description.