

AES 44-48-3000 Advanced Lithium Battery by Discover



Price: CAD \$4,299.00

SKU: DB4448-3000

Product Categories: [Batteries](#), [Lithium](#), [Multi-Use : 48V](#), [Shop](#)

Product Tags: [3kwh](#), [44-48-3000](#), [44-48-3000 canada](#), [48v](#), [48v lithium](#), [canada](#), [discover 44-48-3000](#), [discover battery](#), [lfp](#), [lifepo4](#), [lithium](#)

Product Page:

<https://www.modernoutpost.com/product/aes-44-48-3000-advanced-lithium-battery-by-discover/>

Product Summary

This is the AES 44-48-3000 Advanced Lithium Battery by Discover. A smart way to upgrade your lead-acid battery system to the latest in capacity, cycle life, and performance. This battery block provides 2.9kWh of energy for 48V systems, and can be paralleled to meet your needs. Boasting a 98% round-trip efficiency, and placing no limits on partial state-of-charge cycles, the 10-year warranty might just mean this is the last battery you'll ever need.

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AES LiFePO4 Lithium batteries are manufactured with the highest-grade LiFePO4 cells and feature a proprietary high peak surge and transient voltage hardened BMS that delivers superior peak power, lightning fast charge and discharge rates and LYNK Solar Gateway functionality for plug-and-play closed loop integration with the worlds best known off-grid inverters and chargers turning a good system into a great one.

44-48-3000 Features ENHANCED RUNTIME

Double the high-current runtime of lead-acid battery

Up to 100% usable capacity

Up to 100% depth of discharge

EXTENDED SERVICE LIFE

10x the life of lead-acid battery (BCI-06)

Unlimited Partial State of Charge cycles

10-year energy throughput warranty

FAST CHARGING

Up to 5x faster than new lead-acid batteries

Up to 10x faster than aged lead-acid batteries

2X faster charging than C/2 Rated lithium batteries

1C continuous charge rate, regardless of SoC

SURGE POWER

Power for off-grid inverter surge demands

Up to 3C peak power discharge rate

1C continuous discharge rate

HIGH-EFFICIENCY

Up to 50% more energy efficient than a lead-acid battery

Up to 98% round-trip efficiency

DYNAMIC PERFORMANCE

Real-time optimization of the charge rate

Faster recharge from 0% to 100% SoC than lead-acid battery

PARALLEL POWER

Easy to parallel more capacity

Linear scaling of charge, discharge and peak capacity

Parallel up to 20 batteries or 160 kWh per LYNK device

QUICK INSTALL

Fast installation. No special tools

Drop-in lead-acid replacement

RELIABLE AND SAFE

LiFePO₄ is thermally safe

Maintenance-free

- Steel case and cover - IP 55 rated

CERTIFIED QUALITY

Discover® manufacturing facilities are fully certified to ISO 9001/14001 and OSHA 18001 standards.

CERTIFICATION STANDARDS

IEC 62619

UL 1973

- CE - UN 38.3 **AES 44-48-3000 Specifications in Brief**

Open Circuit Voltage (V) : 51.2

Nominal Energy (kWh) : 2.92

Useable DoD : 100%

Rated Ah Capacity (1C) : 57

Charge Voltage (Vdc) : 54.4

Max Voltage (Vdc) : 58.4

Min Voltage (Vdc) : 44.8

Max Continuous Charge Current (Adc) : 57
Max Continuous Discharge Current (Adc) : 57
Max. Peak Current (Adc) : 219
Length A (in/mm) : 13.0 / 330
Width B (in/mm) : 13.3 / 339
Height C (in/mm) : 10.1 / 256
Total Height D (in/mm) : 10.1 / 256
Weight (lbs/kgs) : 88.0 / 40.0
Terminal* : M8
Cell(s) : 16S15P
Case Material : Steel
IP Rating : 55
Electrolyte : LiFePO4
[Discover 44-48-3000 - Specifications Sheet](#)

Product Attributes

- Dimensions: 1 × 1 × 1 cm
- Weight: 40 kg