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Health & Household › Household Supplies › Household Batteries › 12V



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LiFePO4 Deep Cycle Battery 12V 100Ah with Built-in BMS, Perfect for Replace Most of Backup Power and Off Grid Applications

Visit the Ampere Time Store

★★★★★ 35 ratings | 40 answered questions

5% off Lowest price in 30 days

Was: ~~\$619.00~~Price: **\$589.99 & FREE Shipping**You Save: **\$29.01 (5%)**Coupon

Save an extra \$30.00 when you apply this coupon.

Details

Pay \$32.78/month for 18 months, interest-free upon approval for the Amazon Rewards Visa Card

Brand	Ampere Time
Voltage	12 Volts
Battery Weight	11000 Grams
Compatible Devices	Mobile Phones
Reusability	Rechargeable

About this item

- **【Lithium Ion Technology】** : Ampere Time deep cycle lithium ion batteries have exceptional longevity since they manufacturing by Automotive Grade LiFePO4 Cells with higher energy density, more stable performance & greater power, letting you use the battery more freely. Our batteries are more cost effective, so when factoring time and cost into your purchase, our lithium ion battery banks come out ahead every time.
- **【Longer Service Life & Higher Safety】** : Our LiFePO4 battery provides 2000~5000 cycles (10 times longer) & a 10-year lifetime compared to 400~500 cycles & a 3-year lifetime in lead acid battery. Highest-level safety based on UL Testing Certificate for the cell inside the battery pack.
- **【Lightweight & Versatile】** : Weighting only 25.35 lbs for one module, our 12V 100Ah battery weighs in at only 1/3 the weight of lead acid batteries! With no acid in the battery, you're able to safely mount in any position. This makes li-ion batteries perfect for marine, RV, campers, golf cart, medical devices, motorhomes & electric mobility scooter, off-road and off-grid applications!
- **【Efficient Power】** : Ampere Time LiFePO4 battery's flat discharge curve holds above 12V for up to 90% of its capacity usage, providing astronomical boosts in run-time compared to only 50% in Lead Acid. This product is your best choice for outdoor camping power and indoor easy installation.
- **【Built-In BMS & Convenience & Maintenance Free】** : Our LiFePO4 battery has built-in BMS (Battery Management System) to protect it from overcharge, over-discharge, over-current, and short circuit with excellent self-discharge rate. Built-in high /low-temp cut off prevents charging over 122 °F (50 °C)/under 32 °F (0 °C). LiFePO4 battery is 50% lighter than lead acid battery with the same capacity. Without memory

\$589.99& **FREE Shipping**

Arrives: Jan 4 - 7

Arrives after Christmas. Need a gift sooner? Send an Amazon Gift Card instantly by email or SMS.

In Stock.

Qty: 1

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Sold by Ampere Time

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Deliver to New York 10001

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effect, no matter what state the battery is, it can be used as soon as it is charged.

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There is a newer model of this item:



Ampere Time 24V 100Ah LiFePO4 Deep Cycle Lithium Battery, Built-in 100A BMS, 4000+ Cycles Rechargeable Battery, 280A Max, Perfect for RV/Camper, Solar, Marine, Overland/Van, Off-Grid Applications
\$1,399.99
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\$599.99

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★★★★☆ 128
\$764.99

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Product Description

Battery Specifications

Rated Capacity : 100Ah

Nominal Voltage: 12.8v

Voltage Range: 10~14.6 V

Terminal Type: M8

Dimensions (L x W x H): 13 x 6.82 x 8.48 (H + Terminal: 9.3) Inch

Weight: 25.35lbs

Maximum Continuous Charging Current: 100A

Maximum Continuous Discharging Current: 100A

Maximum Permanent Discharging Current: 280A 5Sec.

Operating Temperature: Charge: 0°C--50°C; Discharge: -20°C--60°C

- Providing 2000~5000 Cycles, 10 times longer than lead acid battery with only 200~500 cycles
- Weighing in at only 1/3 the weight of the same capacity lead acid battery
- Highest-Level Safety based on UL Testing Certificate

Connection Tips:

1.Premise of Connection: To connect in series or /and in parallel, batteries should meet below conditions:

- a. the same battery capacity (Ah);
- b. from same brand (as lithium battery from different brands has their special BMS);
- c. purchased in near time (within one month).

2.Limitation for Series Connection:

Up to 4 identical batteries for up to 48V connecting in series. (No limits for parallel connection).



	12V 50Ah PLUS	12V 100Ah	12V 200Ah	12V 200Ah PLUS	12V 300Ah PLUS	24V 100Ah
Nominal Voltage	12.8V	12.8V	12.8V	12.8V	12.8V	25.6V
Charge Voltage	14.6V	14.6V	14.6V	14.6V	14.6V	29.2V
Energy	640Wh	1280Wh	2560Wh	2560Wh	3840Wh	2560Wh
BMS Board	50A	100A	100A	200A	200A	100A
Maximum Continuous Charging / Discharge Current	50A	100A	100A	200A	200A	100A
Weight	14.3lb / 6.5kg	25.35 lbs / 11.5kg	46.07 lbs / 20.9kg	52.25lb / 23.7kg	69lb / 31.5kg	47.4lb / 21.5kg
Dimension	L7.79*W6.53*H6.69inch	L13*W6.82*H8.48 inch	L20.5*W9.37*H8.54inch	L20.5*W9.37*H8.54inch	L20.5*W9.37*H8.54inch	L20.5*W9.37*H8.54inch
Max. Load / Inverter Power	640W	1280W	1280W	2560W	2560W	2560W
Recommend Solar Panel Configuration (Fully charges with effective sunshine 4.5h/day)	150W	300W	600W	600W	900W	600W
Wire(s) for Series & Parallel Connection / Loading	10 AWG	6 AWG	6 AWG	2* 6 AWG	2* 6 AWG	6 AWG

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	<p>This item LiFePO4 Deep Cycle Battery 12V 100Ah with Built-in BMS, Perfect for Replace Most of Backup Power and Off Grid Applications</p> <p>Add to Cart</p>	<p>ML100-12 12V 100AH SLA Battery - Mighty Max Battery Brand Product</p> <p>Add to Cart</p>	<p>Interstate Batteries 12V 110 AH SLA/AGM Deep Cycle Battery for Solar, Wind, and RV Applications - Insert Terminals (DCM0100)</p> <p>Add to Cart</p>	<p>Renogy Li 12V 100Ah Smart Lithium Iron Phosphate Battery</p> <p>Add to Cart</p>
Customer Rating	★★★★☆ (35)	★★★★☆ (76)	★★★★☆ (55)	★★★★☆ (128)
Price	\$589 ⁹⁹	\$174 ⁹⁹	\$249 ⁹⁹	\$764 ⁹⁹
Sold By	Ampere Time	Amazon.com	Interstate Batteries	Amazon.com

Product information

Package Dimensions	11.81 x 7.87 x 5.91 inches
Item Weight	220 pounds
Manufacturer	Ampere Time
ASIN	B084DB36KW
Batteries	1 Lithium ion batteries required. (included)
Customer Reviews	★★★★☆ 35 ratings 4.4 out of 5 stars
Best Sellers Rank	#175,841 in Health & Household (See Top 100 in Health & Household) #516 in 12V Batteries
Date First Available	January 29, 2020

Warranty & Support

Product Warranty: For warranty information about this product, please [click here](#)

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Ampere Time 12V 100AH

Ampere Time

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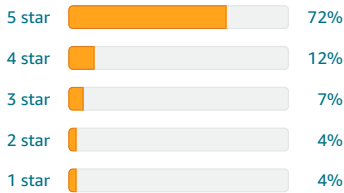
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★★★★☆ 4.4 out of 5

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Top reviews

Top reviews from the United States

Brent C.

★★★★★ **Great Value; Customer Service Outstanding**

Reviewed in the United States on October 16, 2020

Verified Purchase

These are my first experience with Lithium Batteries. I'm using four of them to power my 2000watt inverter for the solar outfit I have put in my Grand Design 5th-wheel RV. I'm still amazed at how different Lithium batteries are from lead acid. At 71, the 75 pound lead-acids have become a problem to move about. These batteries are less than 25 pounds. I've tested all the devices in the RV except the AC's (don't intend to use them with the inverter), and when pumping out over 150 DC Amps I'm yet to go below 13 volts on my battery monitor. The price is certainly right, too. I'm not sure why people pay 400 dollars more for the others; I did notice that these are warrantied for 5 years, and perhaps its the number of charge cycles they're rated for that make the others so expensive. I believe these are rated for 4000-6000 charge cycles from empty to full. They have an expected lifetime of 10 years. With four of them (400 amp hours), I doubt they'll ever go much below 50% SOC unless I do a lot of microwaving and run the refrigerator from them instead of propane. Anyway, I am very pleased with what I've seen so far.

Being new to Lithium and trying to figure out the settings on my Victron BMV 712, I emailed customer service with questions about five times. As regular as the clock, I had an answer promptly the next day [Read more](#)

25 people found this helpful

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Yongjian Dong

★★★★★ **High performance with very reasonable prices**

Reviewed in the United States on October 16, 2020

Verified Purchase

Initially I just wanted to know if the lower priced lithium battery can meet my requirements, the answer is Yes, with a 2000w inverter and 400w solar panel, this 100AH battery could support my laptop and cellphone all day without any problems, actually I also use it to drive my coffee maker 1500w, great product!

Realized that higher voltage will have lower ampere , it will reduce risks when using high power consumption appliance, I purchased 2nd battery of Ampere time, connecting 2 batteries in serious, with a new 3000W inverter, now the battery can easily drive my RV air conditioner for a short time to cool down the RV , the batteries are working great, even I discharged it to 1.7% of capacity, it was charged quickly second day , strongly recommend this product



20 people found this helpful

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Amazon Customer

★★★★★ I'm ordering a second one!
Reviewed in the United States on August 15, 2020

[Verified Purchase](#)

This battery is light weight and easy to install in my motor home. I'm ordering a second one to double my power. I am satisfied with this battery!

23 people found this helpful

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Wolfgang Stiller

★★★★★ Excellent value, weight, power, and quality

Reviewed in the United States on August 26, 2020

[Verified Purchase](#)

I gave this battery a thorough test to confirm capacity and max current performance. I found that it exceeded the published specs. I got well over 100 amp hours out of the battery before dropping below 12 volts and found I could draw over 100 amps with no problem. This is an excellent battery for the price and weight.

19 people found this helpful

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Christopher A Page

★★★★★ Wonderful Customer Service from the Manufacturer!

Reviewed in the United States on May 25, 2020

[Verified Purchase](#)

Really first-rate customer service from this company. They responded promptly, answered all of my questions, and gave me great confidence in their product, which has performed wonderfully so far.

20 people found this helpful

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PK

★★★★★ Ampere Time deserves attention.

Reviewed in the United States on August 21, 2020

[Verified Purchase](#) | [Early Reviewer Rewards \(What's this?\)](#)

These batteries have performed as promoted in every category.

Shipping was fast, and Seller is very responsive.

Packaging is good, and the batteries come with good documentation.

Price is competitive, and with a 5 year warranty (which can be backed up with supplemental insurance offered through Amazon), I definitely recommend this product and this Seller.

17 people found this helpful

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Joseph C.

★★★★★ Impressive battey

Reviewed in the United States on July 31, 2020

[Verified Purchase](#) | [Early Reviewer Rewards \(What's this?\)](#)

Lite, powerfull batt. Have been testing it using a 3,500 watt inverter with power hungry tools & this batt has been flawless.

Buy it!

16 people found this helpful

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mobyvic

★★★★★ Gave me a scare

Reviewed in the United States on August 27, 2020

[Verified Purchase](#) | [Early Reviewer Rewards \(What's this?\)](#)

Put the battery in my RV. Went boon dock camping miles from anything. Still don't know what happened for sure. The generator was running and suddenly shut down. I checked the battery and it showed dead, nothing at all. I took the battery out and then found that there was blown fuse on the converter. I hooked the new battery up to solar system and the battery came back to life and was almost fully charged. I believe that the internal system in the battery shut it down and the solar triggered it back to life. It would be nice if this battery came with some sort of manual that explained the whole thing, especially considering the price paid. When you are out in the middle of nowhere it crazy to think you can make a call to their tech line. The batter does seem very efficient. It takes a charge quickly and holds it. Considering I replaced two golf cart six volt batteries for this very light battery it is remarkable. Time will tell how it all works out.


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