



LiT® Battery Frequently Asked Questions

How safe are LiT® Lithium Ion Batteries?

LiT® LiFePo₄ batteries are considered to be safe, non-flammable and non-hazardous by international and federally regulated standards.

What can I use a Lithium LiT® Battery for?

You can use a lithium battery for any application that would normally use a single or multiple Lead Acid, GEL or AGM batteries. Nexgen® batteries are commonly used for Marine, RV, Solar, Industrial, performance, and Golf Cart applications.

How do I change my batteries to Lithium?

After you take out your old batteries, place our batteries in the same way. You can use the same cables to reconnect into LiT® products.

How do I charge a Lithium battery?

LiT® lithium ion technology uses the latest and most advanced built-in battery protection system to prevent damage to the battery. You may utilize a standard charger for our products, although in some cases a lithium charger may be required to charge the batteries.

Charging sources:

1. **Alternator:** Most alternators will sufficiently charge LiT® lithium ion technology
2. **Inverter:** Most inverters have a way to set or program the charging voltage. Lithium ion batteries need to be charged as close to 14.4v - 14.6v as possible to get a full charge.
3. **Standard charger:** A standard battery charger **will charge** LiT® lithium ion technology due to our advanced built in battery protection system.
4. **Lithium Charger:** Purchase a charger designed specifically for LiT® to charge our lithium ion batteries up to 14.6V.

How long do they last?

LiT® advanced lithium-ion technology will provide you with 2000 complete charge and discharge cycles at 80% DOD. After 2000 cycles, you will still have over 80% of usable energy left!

Example: One 12v 100ah LiT® battery, after being fully discharged for 2000 cycles, is now a 12v 80ah battery.

So what does that mean in terms of years?

If you discharge 80% of the LiT® battery and then recharge it every day for 6 years, you will still have 80% of usable battery power left. This is a huge increase in lifespan compared to a typical AGM or Lead Acid battery rated at 300 life cycles.

How will I know how many batteries I need?

Please send us a quick inquiry. A customer support representative will suggest a more efficient lithium battery bank for your application. Lithium is 70% lighter while delivering the same amount of power and capacity as an AGM or lead acid battery bank.

What is the built-in battery protection system and how does it work?

Our internal battery protection system is a high-tech innovative design made to protect the lithium cells.

- Internal Features:
 - **Low Voltage Protection Switch** - Automatically disconnects at 10.5V.
 - **Over Voltage Protection Switch** - Automatically disconnects at 15.8V.
 - **Short Circuit Protection Switch** - Automatically disconnects upon a short.
 - **Reverse Polarity Protection Switch** - Automatically disconnects should polarity be accidentally reversed.
 - **Internal Cell Balancing** - Automatically balances cells while under charge

- **Charge Balancing** - Independent balancing for multiple batteries connected in parallel or series.

Customer Service

Along with great customer service, friendly staff, and reliable on time solutions, LiT® technical support employees are unmatched in the industry. We are here from 9:00 a.m. to 5:00 p.m. (EST) Monday through Friday. Our live customer support staff are ready to answer your questions and suggest high-quality reliable products for your application. Send us an email with your questions and a NexGen® customer support representative will get back to you the same business day. Most questions can be answered promptly through our online quick inquiry forms located throughout the site.

In case we missed something...

Send us an email with your questions and we will respond the same business day. You may reach us at sales@lithiumiontechnologies.com