**When Discussing the Lion Safari UT 1300 Battery**

Top Ten -- Remember and Repeat

1. The Safari UT 1300 is a Lifetime Battery—up to 3,500 life cycles (100% discharge to recharge or called Depth of Discharge) vs only 250 life cycles for lead acid.
2. Limited Lifetime Warranty—not a 1-year or pro-rated warranty.
3. Camp twice as long—with 2 lithium batteries vs. 2 lead acid batteries.
4. Maintenance Free and Holds a Charge Over a Year—Lead acid requires recharge every 3-6 months or dies.
5. Recharge vs Replace—when lead acid falls below Depth of Discharge it’s dead. Simply recharge Lithium.
6. Lighter Weight—the UT is only 23 lbs., traditional batteries 45-60 lbs.
7. Plug-n-Play—simply remove lead acid and insert our Lithium UT; same standard 24 group size.
8. Charge 15% Faster—superior properties of Lithium.
9. Is Green Safe—no emissions, no carbon footprint during use, no toxic gases, no fluid discharge.
10. Lift and Dump 6-8x More—on a single charge than a traditional lead acid lifts a dump trailer.

**Lion Energy Safari UT 1300 – FAQs**

**BASICS**

* What is the Safari UT 1300?

The Safari UT 1300 is the latest in Lithium battery technology. It replaces traditional deep cycle lead acid batteries with the safest Lithium – Iron Phosphate. It is a “plug and play”– simply remove the deep cycle lead acid battery from your RV or boat and replace it with this superior performing battery.

* What does the Safari UT 1300 power?

Motorhomes, 5th Wheels, Travel Trailers, Boats, Living Quarter trailers, Dump Trailers. It also can be used as power storage for your home or cabin.

* How long will the Safari UT 1300 last?

The life of this Lithium battery is approximately 14 times that of deep cycle lead acid batteries—this is a lifetime battery—thus a Lifetime Warranty. If you used it every single day at 100% DOD (Depth of Discharge), it would take nearly 10 years of everyday use and still have 80% of its capacity left. No one does that so what about every other day use at 100% DOD, then 20 years. What if every three days, then 30 years and so on.

* Can it be used to store solar power energy?

The Safari UT 1300 is a great energy storage unit for solar power from panels on homes, cabins, and businesses and RVs.

* How long can the Safari UT 1300 hold a charge?

It will maintain a charge for over a year without having to charge it. This is known as shelf life or storage life. We recommend using it more frequently, though.

* Do I have to maintain the Safari UT 1300?

The Safari UT 1300 is virtually maintenance free, meaning you don’t have to use it or even trickle charge it every 3-4 months, deal with fluids since it doesn’t have any, or remove it from your vehicle and store it for the next season. It can hold its charge for up to 2 years and can be recharged after that time too.

* Why should I buy the Safari UT 1300 (over a lead acid battery)?

The Safari UT 1300 is made from a higher quality and longer lasting battery technology – Lithium (specifically Lithium Iron Phosphate). The Safari UT 1300:

1. A Lifetime Battery—up to 3,500 life cycles (100% discharge to recharge or called Depth of Discharge) vs only 250 life cycles for lead acid.
2. Limited Lifetime Warranty—not a 1-year or pro-rated warranty.
3. Camp twice as long—with 2 lithium batteries vs. 2 lead acid batteries.
4. Maintenance Free and Holds a Charge Over a Year—Lead acid requires recharge every 3-6 months or dies.
5. Recharge vs Replace—when lead acid falls below Depth of Discharge it’s dead. Simply recharge lithium.
6. Lighter Weight—the UT is only 23 lbs., traditional batteries 45-60 lbs.
7. Plug-n-Play—simply remove lead acid and insert our Lithium UT; same standard 24 group size.
8. Charge 15% Faster—superior properties of Lithium.
9. Is Green Safe—no emissions, no carbon footprint during use, no toxic gases, no fluid discharge.
10. Lift and Dump 6-8x More—on a single charge than a traditional lead acid lifts a dump trailer.

* Why should I buy the Safari UT 1300 over other lithium batteries?

The Safari UT 1300 has several benefits over other lithium batteries that vary depending on the competitor. The key benefits of the Safari UT 1300 over the competition are:

1. Lifetime warranty vs limited prorated warranties between 8-10 years
2. More energy storage or Amp Hours (105) v 100
3. More power output at 150A continuous and 900A spike vs 100A and 250A spike
4. Smaller footprint and weight at Group 24 Size and 23 lbs vs Group 31 and 31+ lbs
5. Less expensive at $750 - $899 street price vs $850 - $999 street price

**SPECS**

* How big is the Safari UT 1300 (weight and dimensions)?

It weighs in at just 23 pounds and is the same standard 24 Group Size as other batteries. The dimensions are 10.2” L x 6.6” W x 8.6”.

* What is the Safari UT 1300s rated capacity (Volts or V, Amp Hours or Ah, Watt Hours or Wh, Amps or A)?

It is commonly referred to as a 12V, 100Ah (how much energy is stored in it). Technically, the engineering “Nominal Voltage” is 12.8V and 105Ah and 1344Wh (12.8V x 105Ah). It can do nearly 900A for a millisecond (a spike) then approximately 250A for nearly a minute and then 150A continuous (how much power it puts out) capacity.

* How long will the Safari UT 1300 last?

Lead acid batteries usually last a year or two and often come with a prorated warranty. The Safari UT 1300 1300 has a limited life-time warranty. That means it can completely charge, discharge (use) and recharge 3500 times or cycles before the battery cells are depleted 20% (still has 80% of its capacity). This assumes you are charging one UT at a 1C rate or using a 90A charger for faster charging. If you use a .5C or 45A charger, the Safari UT 1300 can have up to 5,000 life cycle capacity. In simple terms – if you used all the energy in it every day and then recharge it using a 45A charger, the Safari UT 1300 will last for nearly 14 years. If you used it every other day, that’s 28 years, or every three day that’s 42 years and so on. Most people only use it for a few weeks at a time or for a season so the Safari UT 1300 can last a lifetime.

* What does Depth of Discharge (DoD) mean?

DoD simply refers to when the output of the energy in the battery stops. For example, if you used a third of the energy, the DoD is 33%. If you used all the energy in the Safari UT 1300, the DoD would be 100%.

* What level of discharge does the Safari UT 1300 have compared to Lead Acid batteries?

Lead acid batteries are recommended to not go below 50% discharge. If it does, it can become damaged or “dead” and may not be able to recharge. The Safari UT 1300 can be used until it is empty or 100% and still be recharged and used for years.

* How does it perform in various weather conditions?

The Safari UT 1300 performs better than lead acid batteries in most weather conditions. It can charge between temps of 32° to 113° and can discharge between -4° to 131° at 100% rate. Outside these ranges it can discharge at a lower rate.

* Does the Safari UT 1300 have side posts or top posts?

It has top posts that can be removed for a lower profile.

* Can you use the Safari UT 1300 in series and/or parallel?

Yes. You can increase the voltage from 12V on a UT up to 48V total by connecting them in series (4 batteries connected together via + to - posts). You can increase the Amps (A) and Amp Hours (Ah) up to 1500A and nearly 1000Ah by connecting them in parallel (+ to + and - to -).

* Is there any fluid in the Safari UT 1300?

There are no fluids in the unit.

* Can you mount the Safari UT 1300 on its side?

Because it has no fluid and cannot be “flooded” it can be mounted on its side or in various positions.

**SAFETY AND USE**

* How safe is the Safari UT 1300?

The Lion Safari UT 1300 produces no emissions - none. It has no carbon footprint during use, emits no greenhouse gases and causes no damage to the environment. It’s safe enough to use indoors. The Battery Management System (BMS) adds safety controls.

* Can I take this on an airplane / airport?

No. The Safari UT 1300 needs to be transported on the ground or on a cargo plane.

* What is a BMS or Battery Management System?

A BMS regulates the energy usage in the battery and protects it from over usage. The Safari UT 1300 has a top-line BMS. Lead Acid batteries do not have a BMS.

* Is the Safari UT 1300 renewable?

The Lion Safari UT 1300 is part of Lion Energy’s pride of products that creates clean, limitless, renewable energy sources to power your life. It’s designed to be recharged through traditional AC power or renewable sources—the SUN. Simply use a battery charger OR a solar panel(s) with connectors and charge controller and you’ll get a virtually unlimited supply of power.

* How can you charge the Safari UT 1300?

It can be charged from an AC battery charger source or by solar. Most people use it as a “plug and play” by just replacing their old lead acid batteries in the RV and Trailers. Whatever or however the lead acid was being charged, it will do the same charging for the Safari UT 1300. If you use it this way, make sure the charger is set to its highest setting or Voltage (The Safari UT 1300 can take up to 14.6V). However, if you want optimal performance, you can use a universal or simple charger that puts in more Amps than a normal lead acid charger and will charge the Safari UT 1300 faster.

* Is the Safari UT 1300 noisy?

No, it is silent.

* Do I have to maintain the Safari UT 1300?

The Safari UT 1300 is virtually maintenance free—no water or fluids to put in it, no messy water or acid to clean up, no need to frequently (3-6 months) charge it, no taking it out of your device to store it. It can even sit without using it for over a year or more. However, we do recommend using it at least annually.

**Questions and Responses from Lion Safari UT 1300 Users**

**NOTE: Lion Energy thoroughly tests all their products.**

* How many trailer dumps do you get a day out of a lead acid battery vs the Safari UT 1300?

Before switching to the Safari UT I used to get about 6-8 dumps a day with my dump trailer. Then I’d have to either swap out batteries, which is a pain, or be done for the day. Now I have the Safari UT and I get over 20 dumps a day in the same trailer. It’s amazing!

* What features do you like about the Safari UT 1300?

I like that it’s really light weight, it lasts a really long time and it has a battery charge indicator light on top to let me know how much charge it has. It’s also pretty compact and fits into smaller spaces.

* It costs more up front than lead acid batteries. Do you feel it is worth it?

Oh, for sure! It pays for itself in the first couple of years just on not having to keep replacing my old batteries. And that doesn’t even count the savings I have in frustration and headaches by having to do all that maintenance stuff each year with my old batteries. The Lion Safari UT is soooooo much better!

* What do you use your Safari UT 1300 for?

I have a family travel trailer that we use for camping, on fishing trips and just overall family fun. We replaced the normal batteries in it with two Safari UT and we get twice the camping days out of it. I get to spend more time playing with the family and that makes me smile.

* What got you interest in Lithium batteries?

I was getting frustrated with always having to replace my lead acid batteries and all the hassle of trying to do the maintenance every year. I wanted something that wouldn’t require all that and that would last longer. I’m glad I found Lion Energy and their solutions. Just what the doctor ordered.

* What is it like working with Lion Energy?

Lion Energy is one of the most friendly and helpful companies I’ve done business with. Whenever I need information, have a question or even a concern, I call their customer service number and get immediate help. And I love that they stand behind all of their products no question.

* What has been the response to the Safari UT 1300?

Customers are saying this resolves all their battery problems. Dealers love it and are buying it in pairs and in pallets. Manufacturers are thrilled to have a high-quality product that finally matches their manufacturing standards for RVs and Trailers.

Pricing: MSRP $999; Typical Retail $899