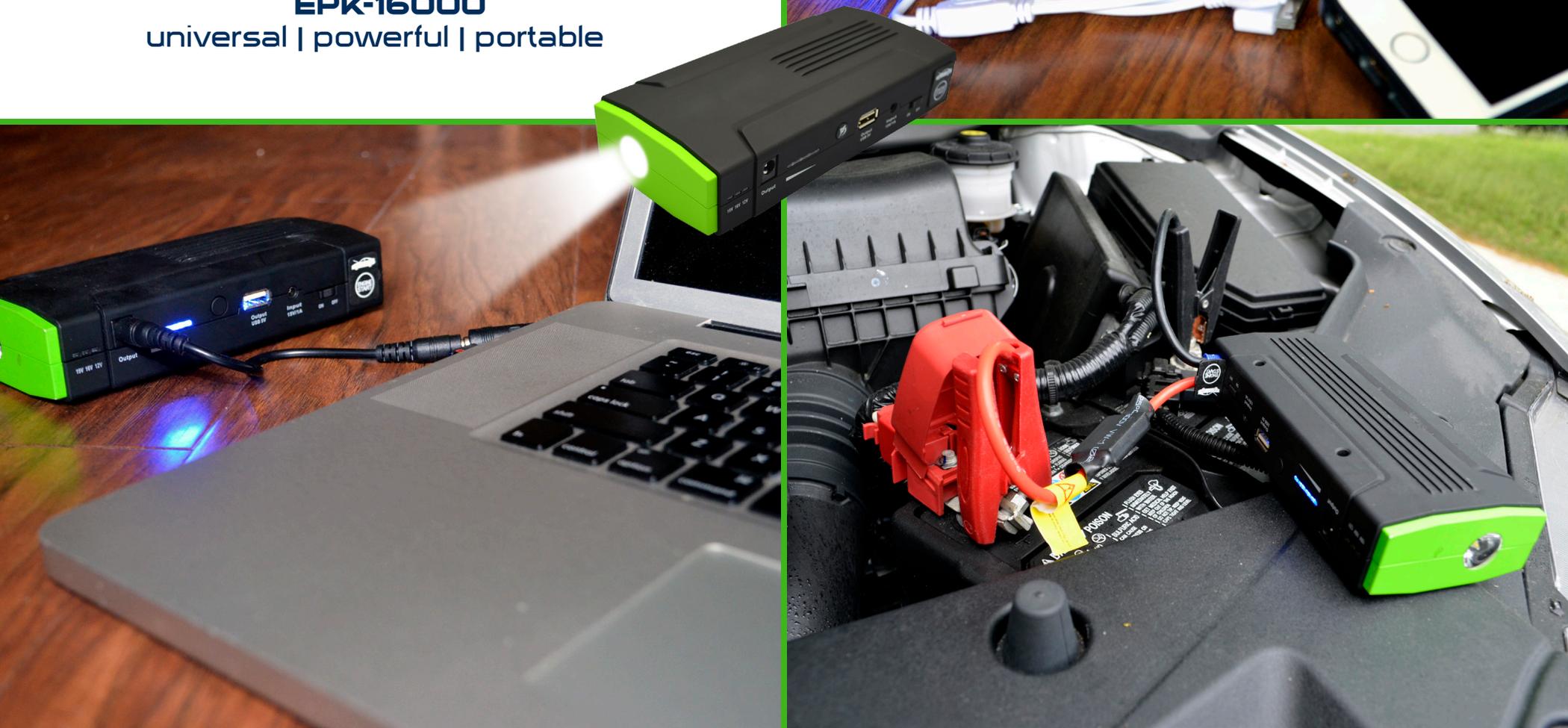


**EMPIRE**  
www.empirescientific.com

MINI MULTI-FUNCTION  
**POWER  
KIT**

**EPK-16000**  
universal | powerful | portable



# EPK-16000 POWER KIT

## WHAT IS IT?

It is a complete solution for backup power in need. It consists of a 16,000mAh portable battery unit that powers or recharges USB interface electronics, laptops, tablets, cellular devices and even jump starts a 12V vehicle multiple times in a single charge. The kit consists of universal accessories, and comes fully charged for immediate use. It is ideal for outdoor activities, power outages, and emergencies. Here is a complete list of functions:

- **JUMP STARTER**  
Jump Starts Cars, Trucks, Motorcycles, Boats and other 12V Vehicles up to 30 times in a single charge.
- **COMPLETE UNIVERSAL KIT**  
Includes universal connectors/plugs for Cellular Phones, Laptops, Tablets, MP3 and other devices. Universal Cellular Cable charges Apple Lightning Connector devices including iPad, iPod and iPhones. Other connectors are compatible with Samsung, LG, Motorola, Sanyo, HTC, Huawei, Kyocera and other various brands.
- **CHARGES LAPTOPS**  
Charges Samsung, Dell, Toshiba, Acer, Sony VAIO, HP, Lenovo and other laptops or netbooks.
- **2A USB OUTPUT**  
2A High Power USB output for charging USB interface devices faster compared to standard chargers. The USB output can be used with any compatible charging cable and can charge multiple device simultaneously.
- **CARRY CASE & READY TO USE**  
Includes a carry case to keep all accessories in one place, and is charged at least 90% for use right out of the packaging.
- **SAFETY & STORAGE**  
The 16,000mAh battery unit is composed of Lithium Iron Phosphate (LiFePO<sub>4</sub>) cells that are much safer than other Lithium based cells, and can withstand extreme temperatures with longer storage time. The unit also consists of an in-line fuse protection, charge/discharge protection and reverse polarity protection. The travel charger included is UL listed.



# KEY FEATURES

## WHY IS THE EPK-16000 BETTER?

All accessories in the kit are unique to Empire and are selected for proper function, safety and ease-of-use. Here is what EPK-16000 has to offer:

- Optimal Safety: LiFePO4 cells are safer compared to Li-Ion/Li-Pol cells. This unit will not explode or ignite if crushed, punctured or struck.
- Overcharge, Over-discharge, In-Line Fuse, and Reverse Polarity protection
- Jump start 12V Vehicles and 12V accessories.
- Easy to use/carry: Compact design makes the unit perfect for travel or storage. It can be stored in a glove compartment, or under the seat in a car.
- Powerful LED: The high intensity LED light can be used as a flashlight, strobe light or a SOS beacon.
- Rechargeable Power Unit: The power unit charges many different devices including but not limited to: Laptops, Notebooks, Tablets, Cell Phones, USB interface devices and more.
- Withstands Extreme Temperatures: The unit can be stored with a full charge at temperatures ranging from -4°F to 185°F without damaging the cells.
- UL Listed travel adapter for your safety.
- Automatically shuts off when no load is detected.
- Charges multiple devices simultaneously.



LAPTOPS &  
TABLETS



CELLULAR  
DEVICES



USB  
ACCESSORIES



12V  
VEHICLES

# KIT CONTENTS

## WHAT DOES THE KIT INCLUDE?

All accessories in the kit are unique to Empire and are selected for proper function, safety and ease-of-use. Here is what the kit includes:

- **POWER UNIT**  
True 16,000mAh battery unit that comes at least 90% charged; ready to use.
- **UNIVERSAL CELLULAR CHARGING CABLE**  
6 feet USB charging cable that is compatible with Apple Lightning Connector interface devices, Apple 32 Pin interface devices, Micro USB interface devices and Mini USB interface devices
- **UNIVERSAL LAPTOP CONNECTORS & CABLE**  
3 feet cord and universal connectors compatible with Samsung, Dell, Toshiba, Acer, Sony VAIO, HP, Lenovo and other common laptops.
- **JUMP START CABLE WITH FUSE**  
Jump start cable to use with 12V vehicles.
- **USB EXTENSION CABLE**  
3ft USB extension cable for use with any accessory.
- **CAR CHARGER**  
2.1A car charger for a fast on-the-road recharge.
- **UL CERTIFIED HOME CHARGER**  
2.1A Output UL certified home charger.
- **USER MANUAL**  
A complete guide for the EPK-16000 Power Kit.
- **CARRY CASE**  
A compact zip case to keep all accessories organized and stored.



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MINI MULTI-FUNCTION  
**POWER KIT**

universal | powerful | portable

USER MANUAL  
EPK-16000

Thank you for choosing the EPK-16000 Universal Power Kit! Always follow basic safety precautions when using electrical devices. Please read this manual carefully, and store for future reference on troubleshooting tips, instructions and specifications.

**PRODUCT LAYOUT**

**TECHNICAL SPECIFICATIONS**

Size:	5.49 x 3.10 x 1.60 Inches
Unit Weight:	14.46 OZ (Power Unit)
Battery Capacity:	16000mAh
Output:	5V - 2A, 12V - 2A, 16V - 3.5A 15V - 2.5A
Input:	15V - 1A
Unit Recharge Time:	4 Hours
Starting Current:	250A
Peak Current:	500A
Operating Temperature:	-4°F to 185°F

**CHARACTERISTICS**

- Optimal Safety: LiFePO4 cells are safer compared to Li-Ion cells. This unit will not explode or ignite if crushed, punctured or stuck.
- Overcharge, Over-discharge, Fuse, Reverse Polarity protection
- Jump start 12V Vehicles and 12V accessories.
- Easy to use/carry: Compact design makes the unit perfect for travel or storage.
- Powerful LED: The high intensity LED light can be used as a flashlight, strobe light or a SOS beacon.
- Rechargeable Power Unit: The power unit charges many different devices including but not limited to: Laptops, Notebooks, Tablets, Cell Phones and more.
- Withstands Extreme Temperatures: The unit can be stored

with a full charge at temperatures ranging from -4°F to 185°F without damaging the unit.

- UL Listed travel adaptor for your safety.
- Automatic shut off when no load is detected.
- Charge multiple devices simultaneously.

**OPERATION GUIDANCE**

A. INDICATOR LIGHTS

- Press the Key Switch to check remaining runtime on the EPK-16000

Indicator Lights	Unit	1	2	3	4	5	
Battery Capacity	0%	10%	20%	40%	60%	80%	100%

When using the unit, the indicator lights will flash in a sequence. The number of solid lights translates to the available charge remaining on the power unit. All indicator lights are solid when the unit is fully charged.

B. CHARGING THE EPK-16000

- Turn the Master Switch to OFF on the power unit.
- Plug Car/Travel adaptor.
- Indicator lights flash in a sequence and solid lights indicate the amount of charge. All solid indicator lights confirm the unit is fully charged.  
Normal Charge Time: 4 hours

# SAFTEY FEATURES

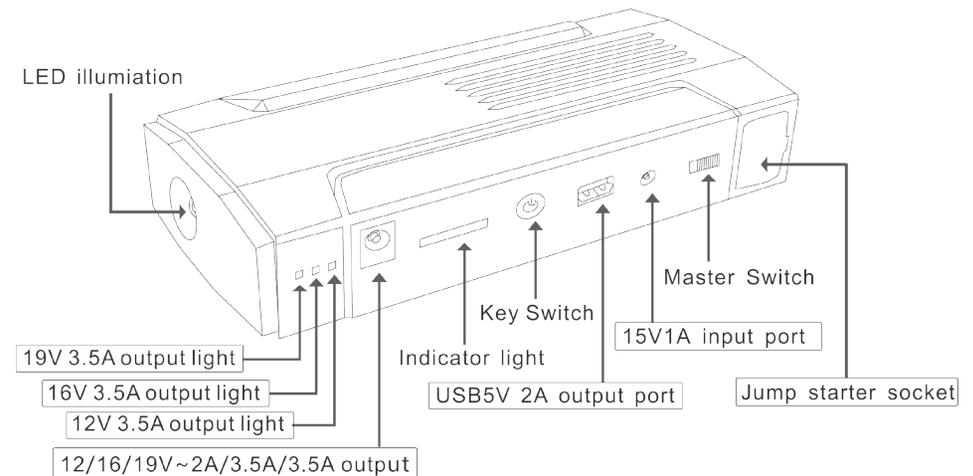
## HOW SAFE IS IT?

EPK-16000 consists of multiple protection circuits that protect the user, the power unit and the vehicle battery. Here is a list of the safety features:

- **OVERCHARGE/OVER-DISCHARGE**  
The unit will automatically cut-off voltage to protect the cells from being overcharged and can be left on charge using the home adapter or car adapter without any concern of damaging the cells. Similarly, if during use the unit is almost fully discharged, it will cut-off voltage to protect cells.
- **IN-LINE FUSE**  
The jump start cable consists of an in-line fuse that protects the unit during jump starting a vehicle.
- **REVERSE POLARITY**  
The unit automatically cuts off voltage when the jump start cables are connected to the incorrect polarity. This protects both the unit and the vehicle battery from damage.
- **LiFePO4 CELL**  
Lithium Polymer Phosphate cells are safer compared to Li-Ion/Li-Pol cells. This unit will not explode or ignite if crushed, punctured or struck.
- **UL LISTED HOME CHARGER**  
The home adapter is a high output 2.1A charger included in the kit to recharge the power unit. It is UL listed and safe to leave on charge overnight without any concerns.
- **AUTOMATIC SHUT OFF**  
It will automatically shut off when no load is detected to conserve power in case the switch is not turned to the 'off' position, or cables are not disconnected.

## TECHNICAL SPECIFICATIONS

Size:	6.49 x 3.10 x 1.60 Inches
Unit Weight:	14.46 OZ (Power Unit)
Battery Capacity:	16000mAh
Output:	5V – 2A 12V – 2A 16V – 3.5A 19V – 3.5A
Input:	15V – 1A
Unit Recharge Time:	4 Hours
Starting Current:	260A
Peak Current:	400A
Operating Temperature:	-4°F to 185°F



## F.A.Q'S

- **Q: How many times can the unit charge my cellular phone?**  
A: It varies based on the cellular device and the original battery capacity rating. It will charge an iPhone 4 up to 7 times in a single charge.
- **Q: How long will this unit take to fully charge a cellular phone?**  
A: Approximately 1 hour.
- **Q: How long will this unit take to charge my laptop on a full charge?**  
A: Approximately 2-4 hours depending on the laptop battery capacity.
- **Q: How many times will this unit jump start a vehicle in a single charge?**  
A: Up to 30 times depending on the type of battery.
- **Q: How long will this unit hold its charge while in storage?**  
A: 8-12 Months. However, it is suggested the user recharges the unit every 3 months while in storage.
- **Q: Will it be dangerous if both clamps touch when jump starting a vehicle battery?**  
A: No, the protection circuit will cut-off voltage, and not cause any harm to the user or the vehicle battery.
- **Q: Can I damage the vehicle battery by clamping to incorrect polarity?**  
A: No, the reverse polarity protection circuit will cut off power if it detects the clamps are on the incorrect polarity.
- **Q: What type of vehicle batteries is the unit designed to jump start?**  
A: The unit will jump start any 12V sealed lead acid vehicle battery. It is not designed to jump start lithium or any battery lower than 12V.
- **Q: Is the unit travel safe and can it be recharged overseas (220V)?**  
A: The unit meets all safety regulations and is TSA safe for travel. The home charger also accepts input of up to 240V and can be used overseas.  
Note: Travel plug adapter is required for wall plug compatibility.
- **Q: Does the unit need to be charged before use?**  
A: No, the unit comes 90%-95% charged for immediate use.

- **Q: Is the unit easy-to-use, or does it require technical knowledge?**  
A: The unit is user-friendly and very easy to operate. No technical knowledge is needed. Each kit is supplied with all necessary accessories and a manual that explains step-by-step how to use it.
- **Q: Can I use the USB port with my own personal USB cable?**  
A: Yes, the USB output is universal and can charge any USB interface device. It has a high output of 2A that can also charge Tablets.
- **Q: Is the unit waterproof?**  
A: No, it should not be submerged in water.
- **Q: What warranty does the unit carry?**  
A: EPK-16000 carries a 1 year limited warranty.





CONTACT YOUR ASSIGNED SALES REPRESENTATIVE FOR PRICING INFORMATION  
FOR MORE DETAILS, OR TO PLACE ORDERS VISIT:  
[WWW.EMPIRESCIENTIFIC.COM](http://WWW.EMPIRESCIENTIFIC.COM) | [WWW.SCIENTIFICBATTERY.COM](http://WWW.SCIENTIFICBATTERY.COM)