

# Solar Generators

Energy Solutions for Emergency or Convenience

# Rolling Blackout

- How do I....?
- Communicate
- Run my CPAP
- Recharge my HT
- Preserve food

# Power

when and  
where you  
want it

- Camping trips
- Upgrading RV systems
- Tailgating
- Sudden power outages
- Parties / picnics
- Amateur radio field / emergency operations

# Solar Generators

- Solar Generators are an all-in-one solution
- Come in a variety of sizes
- Solar charge controller
- Battery bank
- Inverter
- Battery management system
- DC / AC outputs
- USB ports
- Bundles include panels

# Concerns with Portable Gas Generators

- Ventilation of Carbon Monoxide
- Noise
- Fuel availability and storage
- Security
- Operating even under light loads
- Starting issues



## Solar Generator advantages

No Carbon Monoxide emissions

Quiet

No fossil fuel smell or dangers

Easy to secure just bring it inside

Ability to allow generator down time

Easy starting just plug and play



# Goal Zero 1500x

\$ 2,000

2000w pure sine inverter

12v 30a ( 360w ) power port

13a cigarette lighter port

USB A and C

USB C 60w PD

46 lbs.

Lithium - ion



Goal Zero  
6000x

\$5000

15 x 10 x 17  
inches

106 lbs.



# Jackery 300

## 100w Solar-Saga

\$ 570

300w pure – sine inverter

Cigarette lighter port 10a

USB A and USB C PD

7.1 lbs

Lithium – ion NMC



## USB PD

## USB C PD

- USB PD is a new protocol allowing fast and flexible charging
- A part of the new USB 3.1 standard
- Connector is reversible
- Port is bidirectional with charge rates up to 100w
- In simple terms devices “handshake” and decide what the power supply can deliver and what the load can accept.

# Solar Controller

## MPPT

## Maximum Power Point Tracking

- An MPPT is basically an efficient DC to DC converter used to maximize the power output of a solar panel.
- The MPPT is designed to continually track and adjust the voltage to generate the most power no matter what time of day or weather conditions.

# Flexible Panels



# Foldable Panels



# Rigid Frame



Finding  
reviews

Perks and  
bundles

New product  
introductions

- Product reviews of this technology come primarily from Youtube content providers
- Hobotech, a personal favorite, a tech guy who is knowledgeable and best of all entertaining
- Subscribing to his channel and “ringing the bell” notifies you of reviews and new product releases
- New releases usually come with a discount code provided by the maker, gaining you a price reduction, or a bundle of useful items at a reduced price

# Crowdfunding

Indiegogo

Kickstarter

Indiegogo's crowdfunding campaigns are where new and groundbreaking products take flight, sometimes long before they hit mainstream availability. With thousands of campaigns launching every week, there's great tech, design, and much more around every corner — often with limited-time perks and pricing for the earliest backers. Before it's everywhere, it's on Indiegogo.

No matter what, creators always control how the work comes together—no 100-page grant applications, no donors demanding you modify your message, no last-minute edits from investors. When backers chip in funding and help spread the word, they too become part of these independent works.

ARM+DSP

## Dual Core System

Extraordinary Stability & Efficiency

USB-C Port  
**100W**



**OTA**

Remote Firmware Upgrade

## LiFePO<sub>4</sub> Battery

6000+ Cycle Time

5100Wh



**3 UPS Modes**

Advanced · Economic · Basic

# UPS

Uninterruptible Power Supply

Up To

**1800W Input**

AC+PV Dual Recharge

Solar Charging

**1800W / 2400W**

MPPT Built-In

Double The Output Power  
**Split Phase Box**  
Double The Voltage & Capacity

Bluetti ECO Mode  
**Prevent up to 30%**  
of wasted electricity loss

Active PFC & PWM

Peak Load Shifting  
For Power Saving

**BLUETTI**  
Brain Circuit Self-checking

## BLUETTI EP500 & EP500Pro - The New Era of Home Backup Power

5100Wh LiFePO4 /1200W or 2400W MPPT Solar /Seamless UPS /240V Split Phase /6000+ Cycles /App & OTA Upgrade  
/100W USB-C /Charge Tesla



Hardware Las Vegas, NV

**\$2,671,782**

pledged of \$10,000 goal

**674**

backers

**50**

days to go

Back this project

Remind me



All or nothing. This project will only be funded if it reaches its goal by Sat, May 22 2021 11:00 AM CDT.



INDEMAND

## LEOCH: The Next Generation Battery Power Station!

2,048Wh Capacity | 4\*2,000W AC Outputs | 13 Outputs | Solar Input | 3000+ Cycles | 900W Power Input



LEOCH

1 Campaign | Kowloon, Hong Kong

**\$927,568** USD by 1,075 backers

\$708,337 USD by 607 backers on Dec 23, 2020

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