



SUNSOCKET™ ENERGYBAR™ 250



User Guide

Model No: ENERGYBAR-250A



Power when you need it, where you need it.

Do You Have Everything?

1x SunSocket™ EnergyBar™ 250
1x Neoprene Carrying Bag
1x AC Charging Adapter

Did you add AspectCare protection to your EnergyBar™ 250?

We want you to enjoy your new EnergyBar™ 250 to the fullest, and without any worries. Please contact us if you did not already add any product protection with your purchase. You have 30 days from the date of purchase to add coverage.

Product Highlights & Specifications

20Ah LiFePO4 BATTERY (256 Watt Hours)

This product utilizes Lithium Iron Phosphate (LiFePO4) technology, which is known for its highest level of safety, durability, and long lifespan. The LiFePO4 is NON-hazardous, and our 20Ah battery contains only 24 grams of lithium. Such qualities make the EnergyBar™ fit for carry-on air travel, as well as an emergency power source. When fully charged, this 20-amp-hour battery can power multiple devices ranging from laptops, fans, GPS or mobile devices for hours. *For detailed information on expected power durations, see Power Table on Page 4.*

Slim & Portable

The EnergyBar™ 250 was specifically designed for maximum portability and versatility. At only 2 inches thick, this high-capacity battery fits in the most convenient places and weighs only 8 pounds making it easy to carry anywhere.

Weather Resistant Carrying Case

Neoprene carrying bag keeps the EnergyBar™ protected everywhere you go. This carrying case also includes a side pocket to hold your adapters.

4 Ways to Charge

Charge the EnergyBar™ directly from:

1. Wall outlet
2. Car Cigarette Lighter socket
3. Portable solar panels as manufactured by AspectSolar
4. Daisy chained to the SunSocket™ Solar Generator*

*Product available at www.aspectsolar.com

BATTERY

Battery Capacity 12.8V 20Ah, 256Wh LiFePO4
24g Equivalent Lithium Content (ELC)

OUTPUTS

USB (4 Sockets) 5V 2A Max
12V DC Socket 12V ± 20% 10A
AC Universal 100 Watt Modified Sine Wave
Maximum 100-watt output.

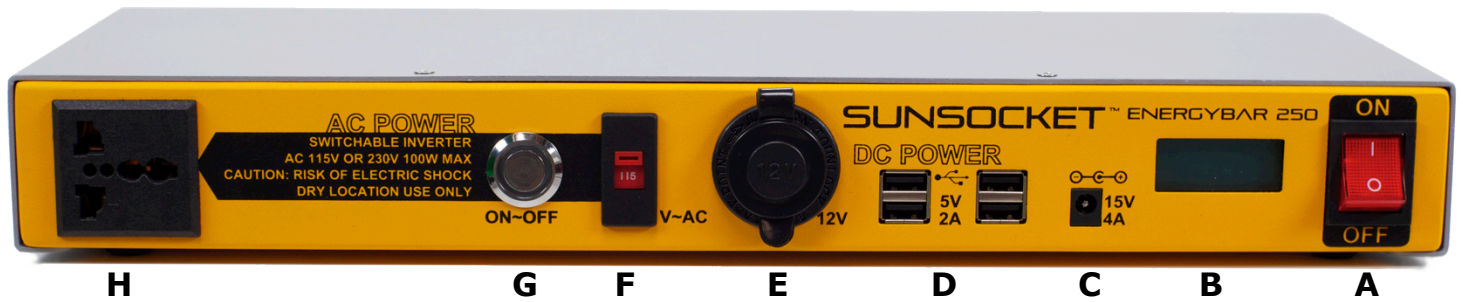
INPUT

DC 15V 4A (For charging and daisy chaining)

GENERAL

Dimensions 2"H x 16.5"L x 6.3"D
Total Weight 8 LBS
Model Number **ENERGYBAR-250A**

User Interface



A. Main ON/OFF Switch: Controls power for the whole unit.

B. LCD Screen Display: Displays battery level. Note: Bars blink when charging.

C. 15V 4A DC Input: Used for charging the EnergyBar™ 250. Adapter is included.

D. Four 5V 2A USB Outputs: High power USB outlets for various electronic devices.

E. 12V DC Lighter Socket: Charges various electronic devices that require a lighter socket for power.

F. V-AC Switch: Changes voltage between 115V to 230V allowing the universal AC inverter to charge various electronic devices that require different voltages. For USA products, use 115V.

G. AC POWER ON-OFF Button: Controls power only for the universal AC inverter. Note: The main power must be ON before turning on the AC inverter.

H. Universal AC Socket: Charges international devices. Please be sure to use the appropriate voltage required for the device you intend to charge.

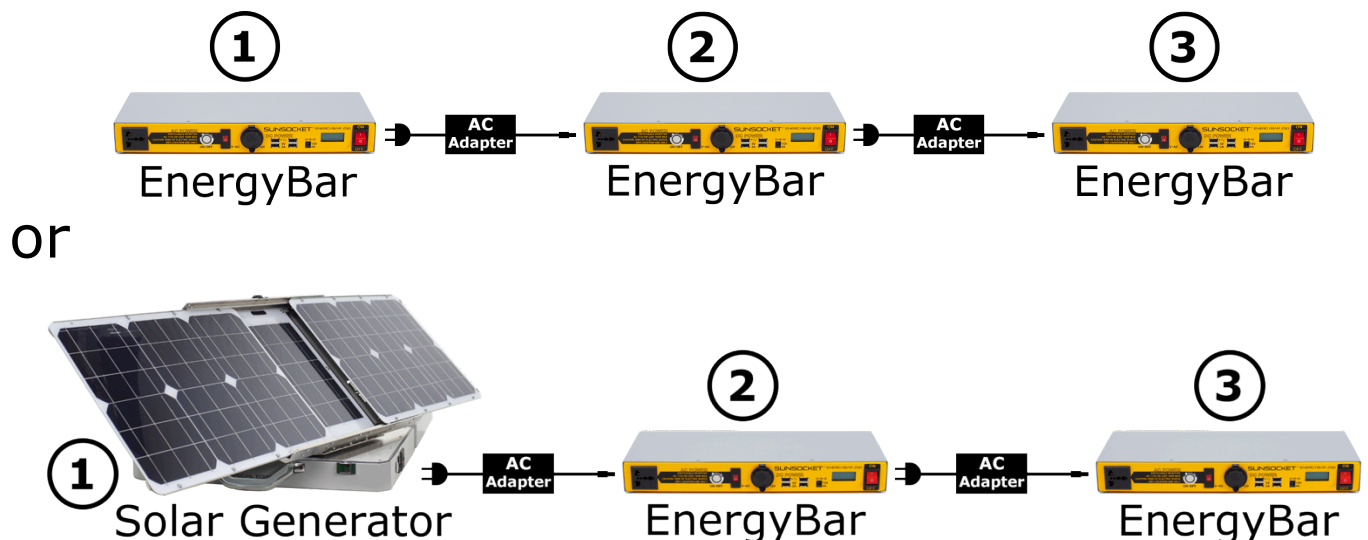
Power Table

The table below describes how long you can power a device based on the amount of watts each device requires. Actual watts, and actual charge durations may vary. It is best to check your device before plugging it into the EnergyBar™ 250.

The EnergyBar™ 250 comes with a built-in 20-amp-hour (256Wh) LiFePO4 battery. When fully charged, it can power a 10-watt device for 25 hours. Alternatively, it can power a 100-watt device for 2.5 hours.

DEVICES	WATTS	Power Duration w/ Full Battery	Double* Daisy Chained	Triple* Daisy Chained
Mobile Devices, Chargers, Small Fans, GPS Navigation, LED Lighting	10	25 Hours	50 Hours	75 Hours
	20	12.5 Hours	25 Hours	37.5 Hours
LED/LCD Televisions, Video Game Consoles, Radios, DVD Players	30	8.3 Hours	16.6 Hours	33.2 Hours
	40	6.3 Hours	12.6 Hours	18.9 Hours
	50	5 Hours	10 Hours	15 Hours
Laptops, Electric Coolers, Large Fans	60	4.2 Hours	8.4 Hours	12.6 Hours
	70	3.6 Hours	7.2 Hours	10.8 Hours
Multiple Devices Charging Simultaneously	80	3.1 Hours	6.2 Hours	9.3 Hours
	90	2.8 Hours	5.6 Hours	8.4 Hours
MAXIMUM OUTPUT	100	2.5 Hours	5 Hours	7.5 Hours

***Double or triple power durations by daisy chaining** the EnergyBar™ 250 to another EnergyBar™ 250 or the SunSocket™ Solar Generator using the AC charging adapter.



Frequently Asked Questions

Q: Is the EnergyBar™ 250 waterproof?

A: No, only the neoprene carrying case provided with the EnergyBar™ 250 is weather-resistant.

Q: What happens if the unit turns on accidentally?

A: No problem. The EnergyBar™ 250 will not lose any power, and the AC inverter will remain OFF unless you turn it on separately.

Q: Can I use my own solar panels to charge the unit?

A: Due to technology interfaces, only use solar panels, solar generators, or charging adapters provided to you or offered by AspectSolar

Q: Can I take it on commercial airplanes?

A: Yes. The built-in battery is called Lithium Iron Phosphate (LiFePO₄), different from other "Lithium Ion" batteries. It is NOT hazardous and contains extremely low levels of lithium (24g of lithium).

Q: Can I replace the battery?

A: No. Replacing batteries is only necessary for products that utilize Lead-Acid or other Lithium-Ion batteries. The EnergyBar™ 250 uses a LiFePO₄ battery, which has a much longer life span and achieves thousands of charge cycles. The EnergyBar™ 250 has an expected lifespan of about 10 years or more.

Q: How can I daisy chain for more power?

A: Using the AC charging adapter provided with your product, connect two or more units to increase your power duration. Units charge in order of priority. First unit charges fully, then second unit charges fully, then third unit charges fully, etc. Due to sunlight limitations, we recommend daisy chaining two (2) units for optimized use.

LIMITED WARRANTY
Aspect Technologies, Inc.
SunSocket™ EnergyBar™ 250
Effective August 22, 2013

WHAT IS COVERED BY THIS WARRANTY?

Aspect Technologies, Inc. (dba AspectSolar) warrants the SunSocket™ EnergyBar™ 250 ("product") contained in its original packaging against defects in materials and workmanship when used normally in accordance with AspectSolar's published guidelines for a period of ONE (1) YEAR from date of original purchase by the end user purchaser ("Warranty Period"). AspectSolar's published guidelines include but are not limited to information contained in technical specifications, user manuals, service communications and this document.

LIMITED WARRANTY EXCLUSIONS

Specifically excluded from this warranty are:

- All consumable parts, such as batteries, carrying case, manual, cable or strap, unless failure has occurred due to a defect in materials or workmanship.
- Cosmetic damage, including but not limited to scratches, rust, dents, broken ports or normal color fading.
- Damage caused by accident, abuse, misuse, liquid contact, fire, earthquake or other external causes.
- Damage caused by operating the product outside of AspectSolar's published guidelines. (SEE SAFETY INFORMATION BELOW)
- Damage caused by anyone who is not a representative of AspectSolar, or an AspectSolar authorized Service Provider.
- Product that has been modified, serviced, tampered with, or had screws and/or nuts removed without the written consent of AspectSolar.
- Defects caused by normal wear and tear or otherwise due to normal aging of the product.
- Product wherein any AspectSolar serial number and/or warranty seal has been removed or defaced from the product.
- Product not purchased from AspectSolar.com or authorized retailer/reseller.

Other Limits and Exclusions:

- There are no other express warranties except what is listed above

HOW TO OBTAIN WARRANTY SERVICE?

Before receiving warranty service, AspectSolar, or its agents will require that you provide proof of purchase details, respond to questions designed to assist with diagnosing potential issues and follow AspectSolar's procedures for obtaining warranty service.

If during the Warranty Period you submit a claim for service, AspectSolar will, at its sole option, (a) repair the product using new or previously used parts that are equivalent in performance and reliability for the remaining period of the warranty, (b) replace the AspectSolar product with a product that is at least functionally equivalent to the AspectSolar product and which may be constructed from new and/or refurbished parts that are equivalent in performance and reliability, or (c) exchange the AspectSolar product for a refund of your purchase price. Incomplete returns may be subject to a restocking fee.

AspectSolar, may request that you replace certain user-installable parts or products. A replacement part or product, including a user-installable part that has been installed in accordance with instructions provided by AspectSolar, assumes the remaining warranty of the AspectSolar product or ninety (90) days from the date of replacement or repair, whichever provides longer coverage for you. When a product is replaced or a refund provided, any replacement item becomes your property and the replaced or refunded item becomes AspectSolar's property.

Service where AspectSolar requires the return of the replaced product or part, may require a credit card authorization as security for the retail price of the replacement product or part and applicable shipping costs. AspectSolar will ship a replacement product or part. Once the product or part being replaced is returned as instructed, AspectSolar, will cancel the credit card authorization, so you will not be charged for the product or part and shipping to and from your location. If you fail to return the replaced product or part as instructed or return a replaced part that is ineligible for service, AspectSolar will charge your credit card for the authorized amount.

AspectSolar reserves the right to change the method by which AspectSolar may provide warranty service to you.

SAFETY INFORMATION –

- Do not connect any devices that operate above 100W to the product for risk of damaging the product;
- Do not insert any foreign objects into any of the sockets or attempt to use incompatible connectors with the sockets;
- The product does not require any installation or tools for operation;
- Only the neoprene carrying case is weather-resistant. The EnergyBar™ 250 is not waterproof, nor water resistant;

- The product must not be dismantled except by authorized AspectSolar, service personnel whereupon warranty is otherwise voided;
- The product is capable of generating high voltages and necessary precautions should be taken to safeguard against electrocution or burns;
- The device is intended solely for use by adults and as prescribed.

ENVIRONMENTAL REQUIREMENTS

Attributes	Description
Operating Temp	0° to 50° C, 32° to 120° F
Environment	Keep away from rain, snow, gas and liquids.

LIMITATION OF LIABILITY -

EXCEPT AS PROVIDED IN THIS WARRANTY AND TO THE MAXIMUM EXTENT PERMITTED BY LAW, ASPECTSOLAR, IS NOT RESPONSIBLE FOR DIRECT, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING FROM ANY BREACH OF WARRANTY OR CONDITION, OR UNDER ANY OTHER LEGAL THEORY, INCLUDING BUT NOT LIMITED TO LOSS OF USE; LOSS OF ACTUAL OR ANTICIPATED PROFITS (INCLUDING LOSS OF PROFITS ON CONTRACTS); LOSS OF THE USE OF MONEY; LOSS OF ANTICIPATED SAVINGS; LOSS OF BUSINESS; LOSS OF OPPORTUNITY; LOSS OF GOODWILL; LOSS OF REPUTATION.

THE FOREGOING LIMITATION SHALL NOT APPLY TO ANY STATUTORY LIABILITY FOR INTENTIONAL AND GROSS NEGLIGENT ACTS AND/OR OMISSIONS.

SOME STATES (COUNTRIES OR PROVINCES) DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATION OR EXCLUSION MAY NOT APPLY TO YOU.

Safety

WARNING: ELECTRIC SHOCK HAZARD!
WARNING: DO NOT USE AC INVERTER WITH ANY PRODUCTS THAT REQUIRE MORE THAN 100W POWER. THE AC INVERTER HAS 100W MAX LIMIT.

- This product is intended for use by adults only.
- USE THIS PRODUCT IN DRY CONDITIONS ONLY. This product is not waterproof, and not water resistant. Only the neoprene carrying case is weather-resistant.
- Keep the AC inverter OFF when not in use.
- You must only use charging adapters provided by AspectSolar to charge the EnergyBar™ 250.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try and correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or experienced radio/TV technician for help.