



Affordable Energy for Anyone, Anywhere

PRODUCT DATA SHEET

PORTABLE POWER MADE EASY

The **SunKit** was originally conceived for use in disaster response operations for our partner, the Footprint Project. Our goal was to develop a reliable, portable, and affordable off-grid Solar+Battery system for under \$3,500 and we're proud to say we've accomplished that and much more! The SunKit replaces small portable generators without the need for fuel, without the noise, without the dangerous fumes, and they last longer and don't need fuel or service.

In response to the gap between larger, robust, and highly expensive systems, and on the other hand, smaller "disposable" sealed systems lacking modularity, flexibility, and performance, we created the perfect product: an affordable, reliable, portable energy system. Charge your power tools, phone, computer while listening to the radio and slow cooking your favorite meal during the day, then still have enough power to for lights and refrigeration all night. Take this to your worksite, to your camping trip, or into the rugged world of disaster and emergency response; the SunKit has you covered!

The SunKit is made to be customizable: choose an amount of battery storage from 1.6-4.4 kWh depending on your need, charge it with PV panels that we can help source or that you can procure locally, and customize your carbon footprint by either option for the longevity of brand new LiFePO4 batteries, or the **twice green** repurposed lithium batteries made from retired EV cells. No matter the application, we'll help you go green!



SUNKIT 1500



WHY SUNKIT?

01

PERFORMANCE

Power virtually any 120v appliance with our 2000W inverter: from refrigerators to cell phones. Simultaneously power small devices and large appliances.

02

PORTABILITY

When paired with our "mobile solar array" the complete system can easily be transported in most passenger vehicles to campsites, job sites, outdoor events or anywhere you might need a portable generator.

03

VALUE / FLEXIBILITY

In addition to having one of the best price-to-performance ratios in its class, the ability to replace and upgrade every component of the SunKit creates long term value for the discerning client.

04

MODULARITY

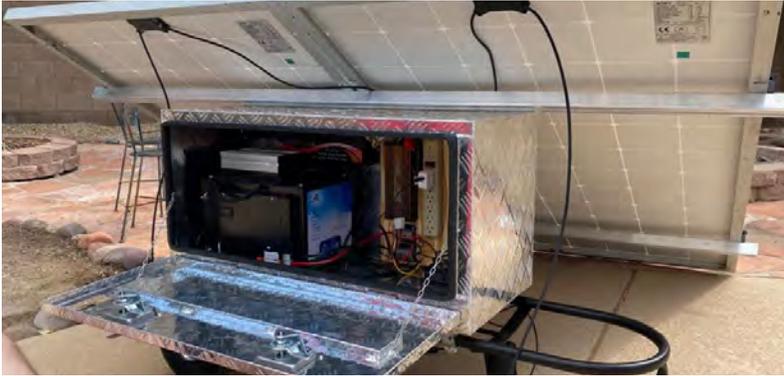
Most Solar+Storage systems require the use of a proprietary set of PV panels. SunKits are made to be used with virtually any commercial panel, and can accommodate 2 to 8 standard size 60-cell solar panels with a capacity ranging from 500 to over 2,700 Watts!

05

SUSTAINABILITY

Many electronic products end up in landfills once they break down, because they are "sealed boxes" not designed to be repaired or upgraded. Unlike those products, the SunKit's components can be replaced or upgraded and when possible, repurposed components are used. Our contribution to the circular economy!

DETAIL VIEW



ACCESSORIES (OPTIONAL)

1. 10 ft 120 or 150W LED Light Tower
2. Mounting brackets to attach SunKit to off-the-shelf handcart
3. AC Charger
4. Wire harnesses for attaching multiple strings of solar panels
5. DC to DC converter (from 48V to 12V)
6. Aluminum mounting rails for solar panels (call us!)
7. Mobile Solar Array (call us!)

SUNKIT SPECIFICATIONS AND OPTIONS

SunKit Version	SunKit Silver 1500 48V Twice Green SK-1500-48-16-R	SunKit Silver 1500 48V HiCap SK-2000-48V-38
120v AC Pure Sine Wave Inverter	1500W Continuous; High Frequency NMC Repurposed	1500W Continuous; High Frequency LiFePO4
Battery Type	1.6 kWh	3.8 kWh
Storage Capacity	48V	48V
DC Nominal Voltage	3000W	3000W
Inverter Peak Output	40A MPPT, 150VDC MAX	40A MPPT, 150VDC MAX
Solar Charge Controller	Optional	Optional
AC Charger	YES	YES
12V DC output	~500W to 2,500W	~500W to 2,500W
PV Input Range	41.5V Low Voltage Shutdown; 50.4V Overcharge Protection	49V Low Voltage Shutdown; 53V Overcharge Protection
BMS Settings	-20°C – 35°C	-20°C – 35°C
Storage Temperature Range	0°C – 55°C	0°C – 55°C
Operating Temperature Range	10 - 90%	10 - 90%
Environmental Relative Humidity Range	35V - 51V	48V - 54V
Battery Voltage Range	1,000 @ 80% DOD 2,500 @ 50% DOD	10,000+ @ 80% DOD
Battery Cycle Life Estimates @DOD	50kg; 110lbs	60kg; 135lbs
Weight	36"x18"x16" inches; 92x46x41cm	36"x18"x16" inches; 92x46x41cm
SunKit Enclosure Dimensions	1 YEAR LIMITED MANUFACTURER'S WARRANTY	
Warranty	<p>Flames or high heat are dangerous with Li-ion; do not use around flames or at temperatures higher than 60C. SunKit enclosures should not be stored or used in direct sunlight. Enclosures should be shielded by panels and/or stored in shade.</p> <p>DO NOT disassemble the battery. DO NOT use a battery with scar or deformation. DO NOT puncture or open battery cells.</p> <p>If SunKit is dropped or damaged, do not use - consult with a professional to ensure no danger exists.</p> <p>*Prices, terms, and specifications are subject to change at the sole discretion of New Use Energy.</p>	
Disclosures & Warnings		