

ROCKSOLAR®

STANDARD
Version

73000mAh

LiPOLYMER BATTERY|270Wh

MAX
Version

89200mAh

LiPOLYMER BATTERY|330Wh

ALUMINUM
ALLOY

3.6kg PORTABLE WEIGHT

DUAL VERSION



SUPPORT MPPT
MAXIMUM POWER POINT TRACKING
ULTRA CHARGING EFFICIENCY



300W PURE SINE WAVE INVERTER PORTABLE SOLAR GENERATOR

Wherever you need power!



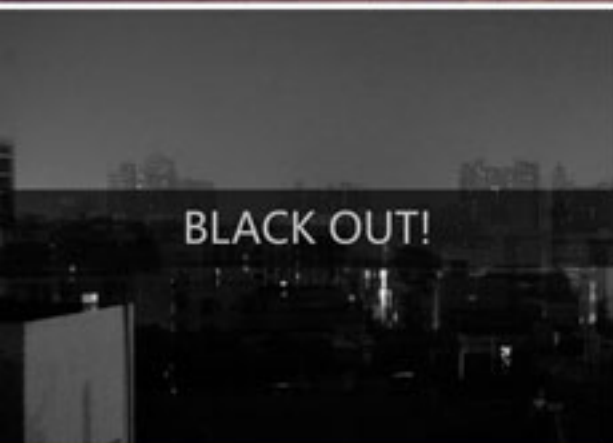
OUTDOOR PEFORMANCES



EMERGENCY RESCUE



MOBILE STALL



BLACK OUT!



LOW BATTERIES?



MULTI-AC PLUG

CUSTOMIZABLE FOR DIFFERENT COUNTRIES

MODULE DESIGNED 4 AC PLUG TYPE

AC Voltage: 110/120/220/230/240VAC±5%

Output Frequency: 50/60Hz±5%

Customized According to different Countries and areas.



UNIVERSAL PLUG
230V/50Hz

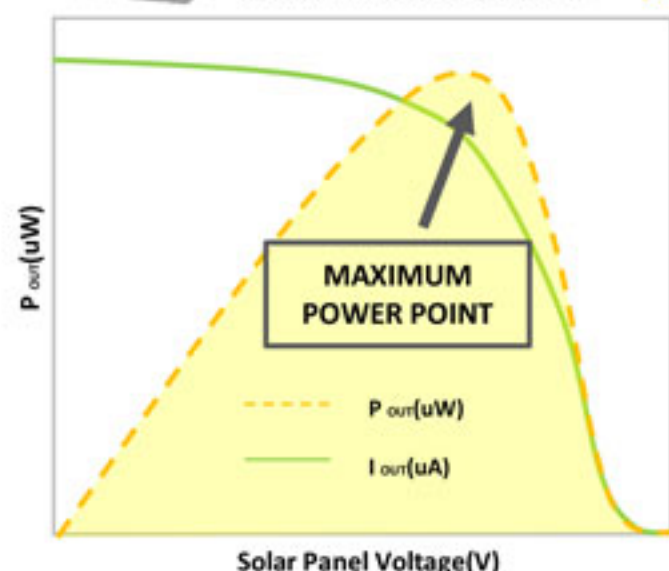
USA PLUG
110V/60Hz

UK PLUG
220V/50Hz

JAPANESE PLUG
110V/60Hz

SUPPORT MPPT TECHNOLOGY

SMARTLY DETECT & STORE



Current (uA)



ULTRA HIGH CHARGING EFFICIENCY
SMART COLLECTING MUCH MORE POWER
FROM THE SUN

What is MPPT Technology?

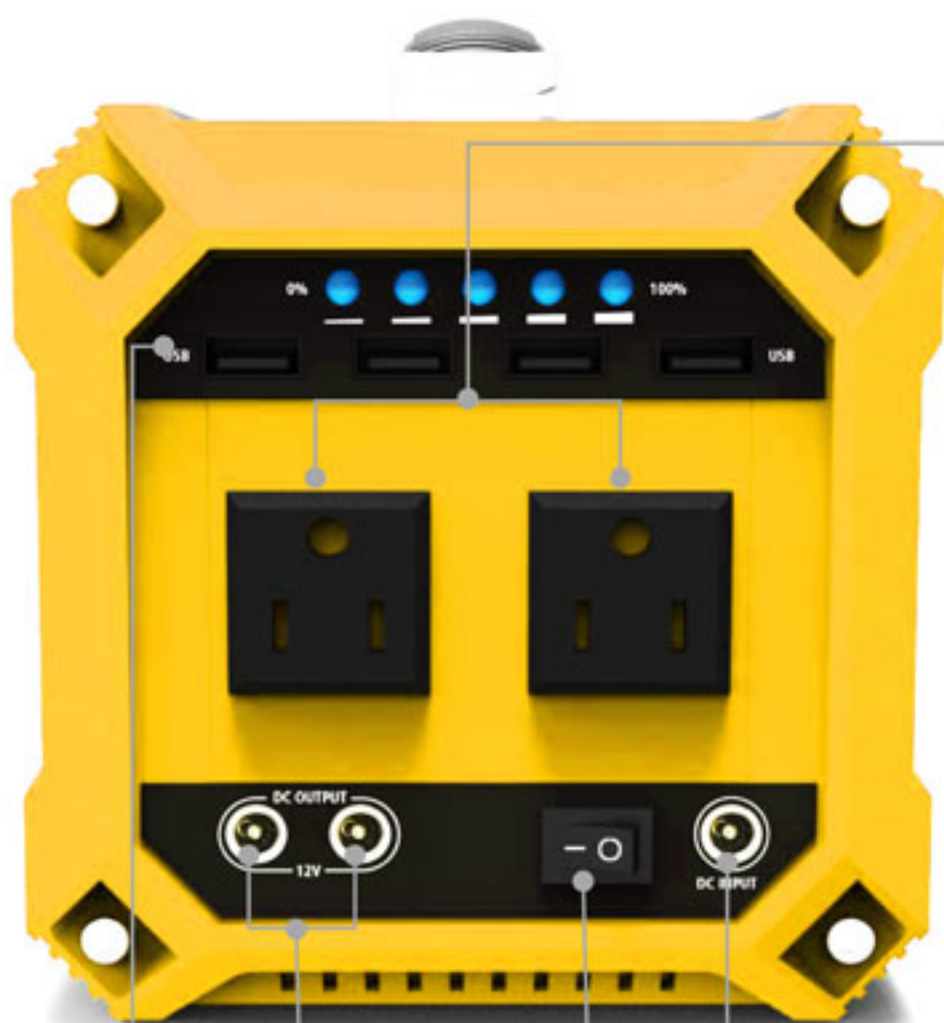
This unit is designed to support charging by solar panel. It's built-in MPPT (Maximum Power Point Tracking) technique, which is designed to use with wind turbines and photovoltaic (PV) solar systems to maximize power extraction under all conditions. With MPPT technology, the unit can compare the output of the solar panels to the battery voltage. It then figures out what is the best power that the panel can put out to charge the battery. And help the unit get maximum AMPS from the solar panels.



*Actual gain can vary widely depending weather, temperature, battery state of charge, and other factors.

INTERFACES

POWERFUL AC



300 WATT

AC CONTINUOUS POWER OUTPUT

Built-in AC Power Output, Provides continuous DC to Pure sinewave AC to power up major household appliances.

AC OUTLETS(CUSTOMIZABLE)

Euro grounded, Italy, Switzerland, India, Australia, USA/Canada

AC Output Voltage Versions : Customizable According to different countries\areas



China



China



USA



USA



Euro



South Africa



UK

AC Switch

DUAL DC12V OUTPUT

Able to power up 2 electrical tools at same time.

DC output 9~12V/15A max

4 x USB 2.1A OUTPUT

Able to charge 3 devices at one time.

Total USB 5V-8A Max



EXCELLENT COMPATIBILITY

With smartphones, tablets, digital cameras made by Apple, Samsung, Huawei, HTC, ZTE, OPPO, MI, MEIZU, Canon....



QUICK RECHARGING

DC input 11.6~24V, up to 4.6A Max

Fully charged in 7 hours

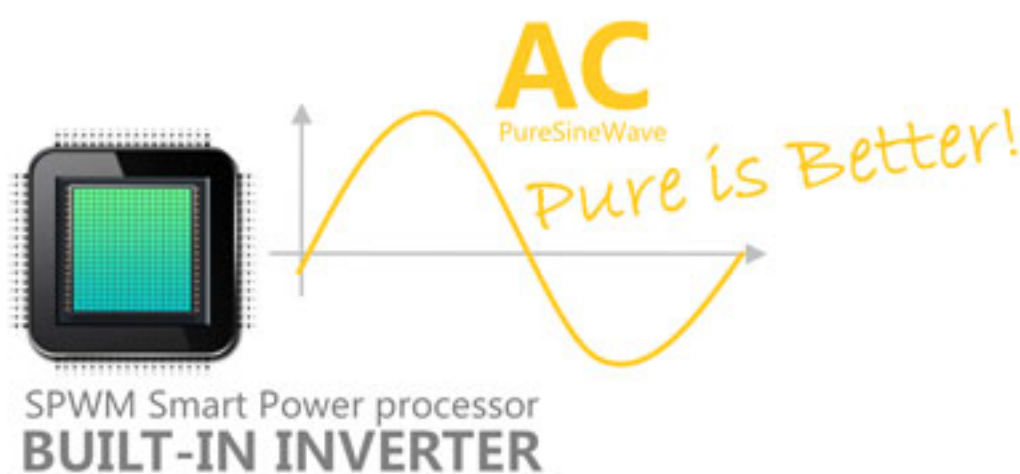


SMART & SILENT COOLING FAN

Built-in Smart & Silent Cooling Fan system, Smart Fan Control will automatically turn on the fan when the unit is hotter to maintain the unit at a constant temperature without running the fan constantly. The working noise is less than 31.7dBA, One can barely hear it. It's very silent.

BETTER POWER SOURCE WITH PURE SINE WAVE

The unit is built-in pure-sine wave inverter, which means it produces an output that is exactly the same as supplied by an AC wall plug in your house. It produces power output that makes it compatible with almost all AC electric devices you use in your house.



**MOST PURE ENERGY FOR
YOUR DEVICES**

INCREDIBLY POWERFUL

270-330_{Wh}
BATTERY POWER

180_W
DC POWER OUTPUT

300_W
AC POWER OUTPUT

8A
USB OUTPUT

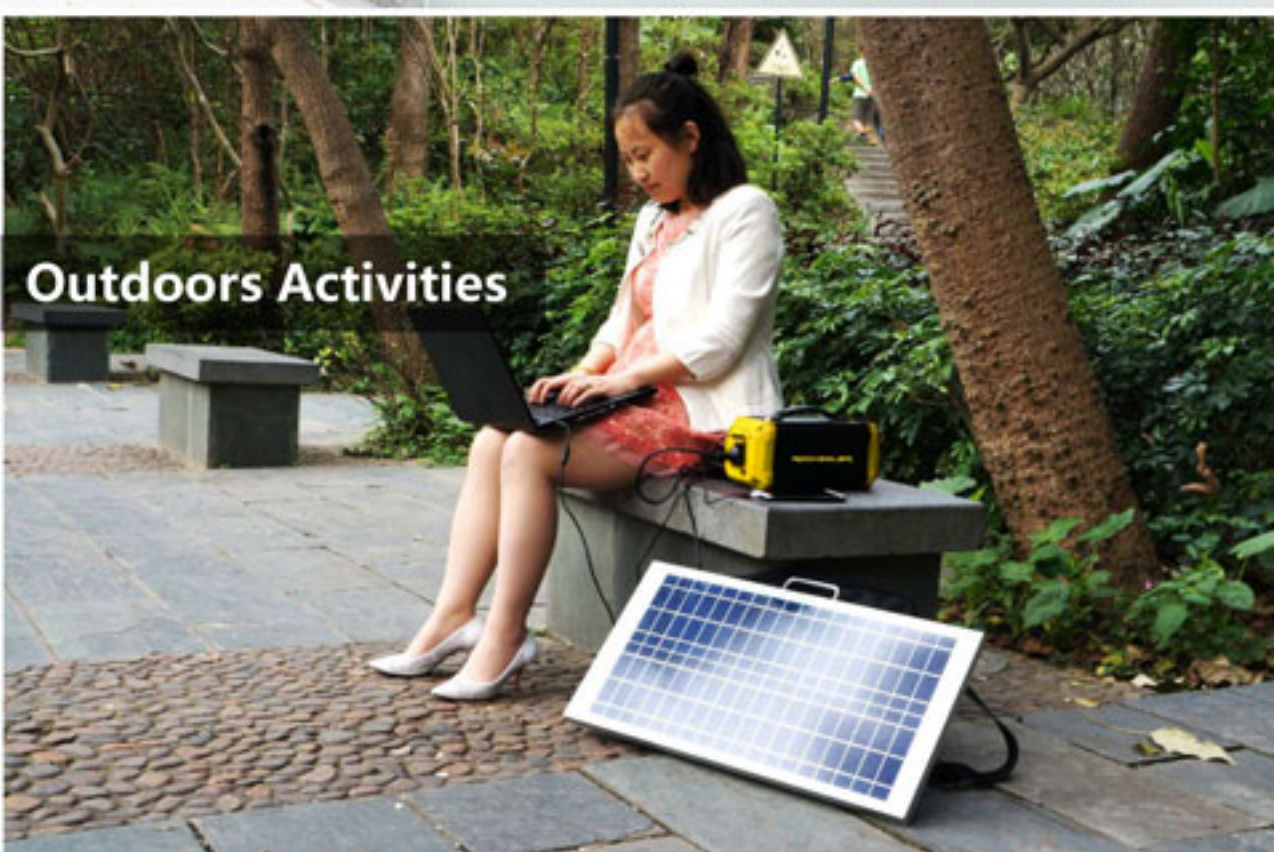
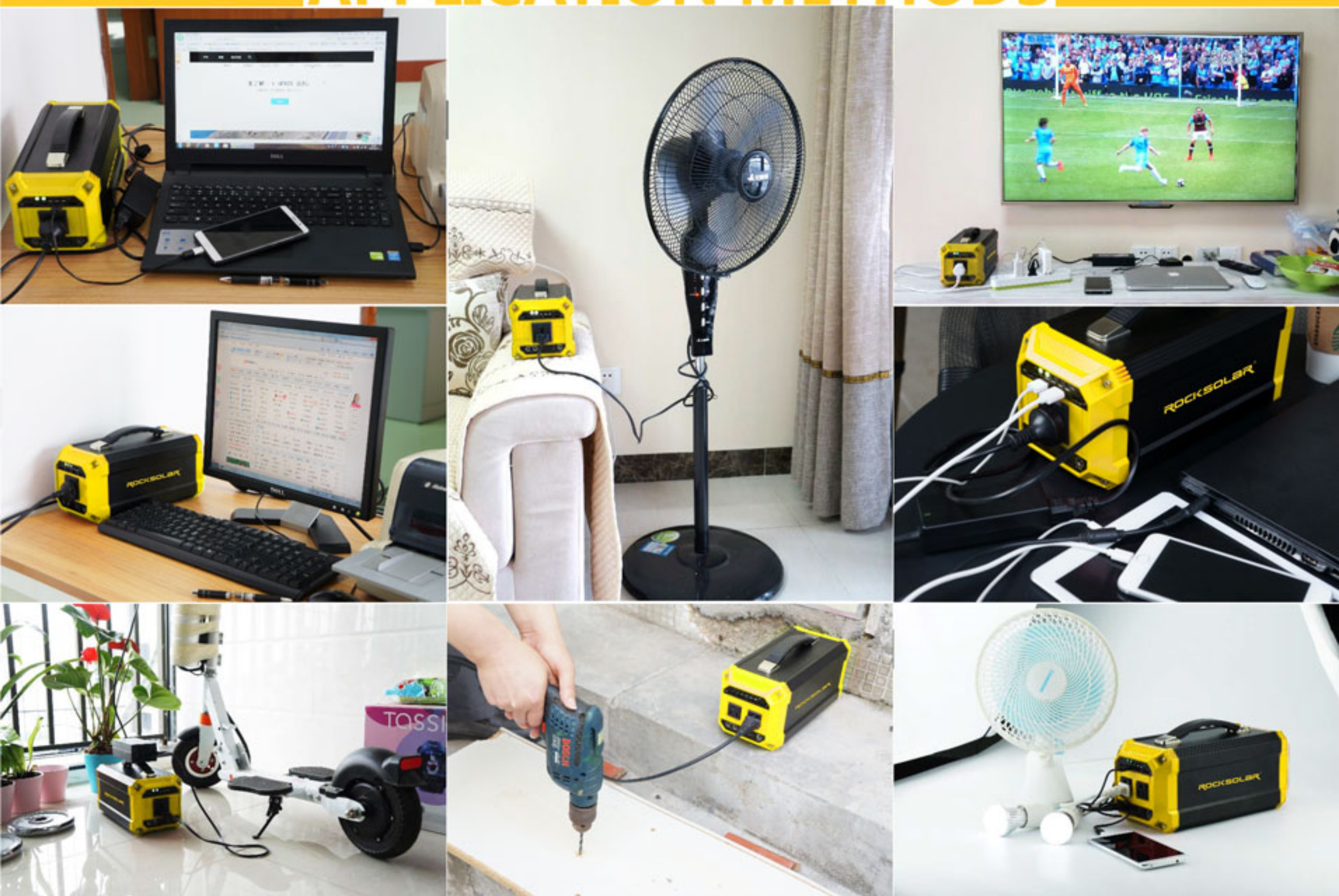
POWER UP HOUSEHOLD APPLIANCES

Home Appliances: TV, Refrigerator, Washing machine, cleaner, juicing machine, Computer, Electric fan, DVD and on-vehicle kits, speaker, etc.



POWER UP INDOORS&OUTDOORS

APPLICATION METHODS



POWER UP DRONES

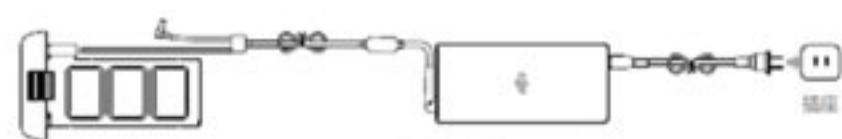
Take Care of Your LiPO Drone Batteries. Charge them anywhere with a portable solar generator, which is light weight to carry and built in high power density lithium batteries.



Battery:330Wh/270Wh



Battery:68wh, Flight time:23mins



FLY LONGER
WITH BACKUP POWER



ULTRA POWERFUL OUTPUT

DC 12V OUTPUT



PROVIDE POWERFUL DC OUTPUT FOR TOOLS

UP TO 180W OF DC POWER OUTPUT, CAN DRIVE MORE TOOLS

BRAND	OURS	OTHERS	OTHERS
DC OUTPUT	12V/15A 180w	12V/3A 36W	NO DC OUTPUT
SHORTCIRCUIT PROTECTION	✓	✗	✗

180w 2 x DC 12V OUTPUTS



Electric Wrench



Wheel jack



Car Wash



Vacuum



Air inflating



EXCELLENT COMPATIBILITY

Smart, compatible, High Capacity, Charging more. Keep your devices working much longer.



Charging iPhone5s
5.3Wh,1560mAh

48 times



Charging iPad mini
16.7Whr,4490mAh

15 times



220V/25W Electric FAN

9 hours



220V/20W LED Light ball

11 hours



35W Charging Laptop

6.5 hours



2W Electric razor

115 hours



5V/2.5W USB FAN

103 hours



12V/7W LED Light ball

39 hours

*Based on Battery power of 330Wh.The following data varies according to the actual conditions of use, for reference only.

Advantages

Leading

BUILT-IN HIGH-TEMPERATURE RESISTANCE

LI-POLYMER BATTERY

WITH NANO CERAMIC DIAPHRAGM

With Nano Tech ceramic diaphragm Li-Polymer batteries, features high strength, piercing resistance, long service life, the temperature can reach 75 degrees Celsius and above deformation.



18650 Cells



RESISTANCE BATTERY
HYPER TEMP

NANO CERAMIC DIAPHRAGM



WHY WE DON'T APPLY 18650 LI-ION BATTERIES?—LOW UNIFORMITY

Ordinary 18650 Li-ion battery series have low uniformity, which can lead to serious problem when they are built into a large battery pack, causing problems such as, battery capacity drops, dangerous situations of battery over-charging or over-discharging. That's one of the reason 18650 li-ion batteries are not commonly used to build large battery pack.



Idea Capacity

Actual Capacity

Low uniformity result in battery capacity drops quickly.

Poor uniformity of internal resistance



Low Quality 18650 Li-ion Batteries can cause serious problem



PERFORMANCE COMPARISON TO LEAD ACID BATTERY

3.3SMALLER times

5.0LIGHTER times





	Lithium Polymer Batteries	Lead Acid Batteries
Voltage	3.7V	2.0V
Lifecycles	500~1000	200
Energy Density	150WH/KG	30WH/KG
Volumetric Energy(Wh/L)	> 320	60-80
Charging/Discharging Efficiency	>97%	<80%
Stand-by Time	>3months	>1 month
Working Temperature	-20°C~60°C	0°C~40°C
Weight	Light 2.5~3kg	Heavy 16~30kg
Size	Small	Large

PROTECTIONS



SMART PROCESSOR
CONTROL



MULTI SAFETY
PROTECTION

1

Leading Advantages

Brand	OURS	Others
Protection	MultiSafety Tec	Common Protection
Short-circuit protection reaction time grade (Lower is better)	0.000000001 second	0.001 second
Short-circuit protection	√	Common Protection
Over-current protection	√	Common Protection
Over-power protection	√	Common Protection
Low-voltage protection	√	Common Protection
Over-temperature protection	√	x

STRONG&SAFE



ALUMINUM ALLOY

With Anodic Oxidation Process
Features scurf resistance, anti-drop,
impact resistant, anti-explosion and
better cooling



LIGHT WEIGHT



EASY TO CARRY
WITH ERGONOMIC HANDLE



3.6kg
LIGHT WEIGHT



CHARGE METHODS



CHARGE FROM SOLAR PANEL

PLACE YOUR SOLAR PANEL WHERE IT WILL GET AS MUCH DIRECT SUNLIGHT AS POSSIBLE.

1

CHARGE BY SOLAR PANEL

Can be recharged by solar panel. Where there is sunshine, there is power.
Charged by solar panel: 11.6V~24V 4.5A max



CHARGE WITH THE POWER ADAPTER

2



Can be recharged by the power adapter.
Charging: 15V 4.5A max

Can be charged by the included power adapter.

CHARGE ONBOARD WITH CARCHARGER

3



NOTICE!
TO AVOID CAR BATTERY
LOSS, THIS WAY OF
CHARGING IS ONLY
AVAILABLE ONLY WHEN
THE CAR ENGINE IS
STARTED

CHARGE ONBOARD WITH CARCHARGER

PRODUCT SPECIFICATION

Name	Portable Solar Generator	
Version	Standard Version	Max Version
Capacity	270Wh/73000mAh,3.7V	330Wh/89200mAh,3.7V
Weight	About 3.3Kg	About 3.6Kg
Fully Charged Time	DC15V/4.5A: 6 hours	DC15V/4.5A: 7 hours
Design	ALUMINUM ALLOY With Anodic Oxidation Process	
Dimensions(LWH)	288x130x130mm	
Built-in Battery	High Quality Lithium Polymer Batteries	
Input Recharging	Adapter:DC15V/4.5A	
Solar Panel Charging	MPPT, 13V ~24V, up to 4.5A Max input	
Charge mode	CC/CV	
DC Output	4 x USB 5V-2.1A, 2 x 5.5MM DC Output: 9~12.6V/15A Max	
AC Output	Pure SineWave Output; AC Continuous Output: 300W AC Voltage: 110/120/220/230/240VAC±5% Output Frequency:50/60Hz±5% Customized According to different Countries and areas.	
Power Indicator	5 led Indicators	
Operation Temperature	-10°C-40°C	
Operation Humidity	10%~-90%	
Lifecycle	>500 times	
Safety Technology	MultiSafety Protection	
Package include:	1 x Portable Solar Generator 1 x 15V/4.5A Power Adapter 1 x Car Charger 1 x Cigarette Lighter Adapter 1 x user manual.	
Color	Red Black	

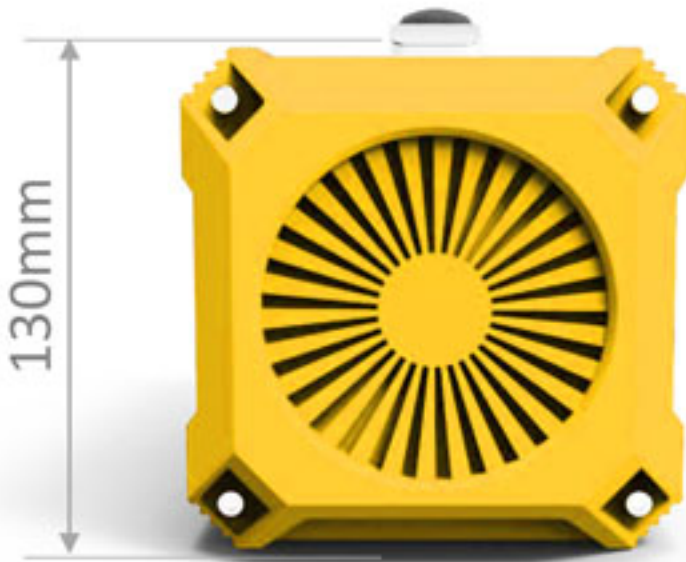
PRODUCT SIZE



LEFT



TOP



RIGHT



SIDE

PACKING LIST

All yours...



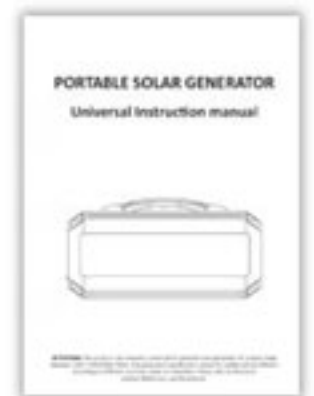
1 x 15V/4.5A PowerAdapter



1 x car charger



1 x cigarette light adapter



1 x User Manual



PACKAGE