

# POWER BANK

— 500W

**Portable Power Supply**





## Applications



## Product introduction

A portable multi-functional energy storage bag based on lithium-ion battery, which output USB, Type-C, DC, AC, supports common power interface, common voltage range. Covering almost all kinds of small and medium-sized digital equipment, household appliances and onboard emergency appliances.

It is an indoor-outdoor multi-purpose power supply which provides backup power for outdoor travel, frequent power outages, no power area. It can even be used to store energy from the sun for a long time in areas outside the city.



## Functions

- ▶ Charged by Solar energy or municipal electricity
- ▶ Covers 99% USB charging device (mobile phone, pad, camera)
- ▶ Providing USB QC3.0 port which supports QC fast charge protocol (mobile fast charge)
- ▶ Providing TYPE-C, 60W, PD protocol, directly adapts to PD protocol laptop power supply
- ▶ Providing DC 12V car cigarette lighter interface, which can supply power for car emergency start, car air pump and so on
- ▶ DC 12V output port is provided for outdoor charging of drones, RC airplanes, etc.
- ▶ AC 110V or 220V port can supply power to most small and medium-sized household appliances (TV, electric fan, indoor lighting)
- ▶ Built-in LED lighting, providing four modes of low brightness, high brightness, SOS, and flash





## Technical Features

- 1.All DC transformations use synchronous rectification technology, including charging, USB, QC, TYPEC (PD), with high efficiency (93% to 98%), low heating and indirectly increasing battery capacity by 5%-10%.
- 2.AC uses pure sinusoidal wave and non-corrected wave to provide better power quality for AC power equipment and radiator enclosure design (no fan, mute version).
- 3.Real MPPT photovoltaic charging, non-ordinary solar charger, 10% higher utilization rate than an ordinary solar charger.
- 4.Adaptive charging, voltage 13.5-30v, power 20-100w, and the optimal charging current is automatically adjusted according to the adapter. Protect the adapter while the fastest charging.
- 5.BMS has dual high and low pressure, high and low temperature, overcurrent protection, software balance, SOC measurement, and other functions, which can guarantee the stable and reliable operation of battery.
- 6.The whole system is shut down in a completely power-down mode. The power consumption of the whole system is less than 1ua, and only 1/100 to 1/50 of the same kind of products are available. Provide the best solution for long time storage.
- 7.The design of uniform internal resistance, such as the convergent use of battery module, ensures the uniform use of electric core, prevents uneven attenuation, and extends the service life of battery module by more than 10%.
- 8.Use power a-product cells, with deep long cycles.

Device	Time
5V Mobile Phone	≥50 Times
LED Light 12V 5W	5W 12V LED supplies about 100 hours
Computer	Host + Display Screen approximately 2-3 hours
13 Inch Laptop	10-20 Hours
50W Fan	8-9 Hours
32 Inch LCD TV	5-8 Hours
20W Energy saving lamp	24 Hours



## Product Parameters

POWER BANK - 500W1434	
Battery Spec	14.8V 33.8Ah 500Wh
Battery pack self discharge current	$\leq 10\mu\text{A}$
Adapter charge	120Wmax(17V-35V), efficiency 97%
Photovoltaic MPPT charging	120Wmax(17V-35V), efficiency 97%
USB-QC3.0	5-12V 18W
TYPE C-PD	5-20V 60W
DC5521	13.2V 5A
AC	110V or 220V
Car cigarette lighter	13.2V 10A
LED	5-10W
Over-discharge protection	12V $\pm$ 0.3V
Over-charge protection	16.8V
discharge over temperature protection	65°C
Charge over temperature protection	45°C
Over current protection	60A(<1S)
Short circuit protection	200A(<2mS)
Weight	5.5kg
(L×W×H) Size	W200*L176*H160mm
Color	Black/Silver/Grey



## Component Details

No.	Item	Quantity
1	Power supply	1
2	Wire	1
3	19V5A Adapter	1
4	Car ignition, car charger two in one cable	1
5	Instruction book	1

