1200W 1050Wh Portable Power Station | LiFePO4 Solar Generator for Outdoor Camping & Home Backup | K5

Our Product Introduction

Basic Information

- Place of Origin: Dongguan, Guangdong, China
- Brand Name: TINKO
- Certification: CE/ROHS/MSDS/UN38.3
- Model Number: K5
- Minimum Order Quantity: 1 Piece
- Price: Negotiable
- Packaging Details: Standard export double-layer corrugated carton, 1 piece per carton.
- Delivery Time: 25-30 work days
- Payment Terms: L/C, T/T
- Supply Ability: 100pcs/day



Product Specification

- Battery Type: LiFePO4 (Lithium Iron Phosphate)
- Battery Voltage: 22.4V
- Battery Capacity: 46.9Ah / 1050Wh
- AC Output Power: 1200W Rated / 1800W Peak
- Output Waveform: Pure Sine Wave
- Charging Methods: AC 850W / MPPT Solar 400W / 12V Car Charging
- UPS Function: Yes, Switching Time < 20ms
- Output Ports: AC / USB-A / Type-C PD / 12V DC Car Outlet / Wireless Charging / LED Light
- Display: LCD Screen With Real-time Status Monitoring
- Dimensions: 366 × 235 × 266 Mm
- Net Weight: Approx. 15.14 Kg
- Operating Temperature: Charge: 0 ~40 ; Discharge: -10 ~40
- Protection System: Intelligent BMS With Full Safety Protections



More Images





for more products please visit us on tinkopower.com

Our Product Introduction

for more products please visit us on tinkopower.com

Product Description

Product Overview

The K5 is a compact portable energy storage power station manufactured by TINKO, built with premium grade-A 7S3P LiFePO4 battery cells and an intelligent BMS system. It delivers 1050Wh of stored energy with 1200W rated pure sine wave AC output (1800W peak power), supporting three charging methods including 850W AC mains charging, 400W MPPT solar charging and 12V car charging.

Equipped with full-range output ports covering AC, USB-A fast charge, Type-C PD, 12V DC car outlet and 15W wireless charging, it also features a UPS uninterrupted power function with less than 20ms switching time. This all-in-one portable power supply is widely used for outdoor camping, RV travel, home emergency backup, field work and outdoor photography scenarios.

Key Features

Grade-A LiFePO4 Battery: Reliable 7S3P lithium iron phosphate cells with built-in intelligent BMS, offering higher safety, stable performance and long service life.

1200W Pure Sine Wave Output: 1200W continuous AC output with 1800W surge peak power, compatible with most household appliances and small power tools.

3-in-1 Flexible Charging: Supports 850W AC wall charging, 400W MPPT solar charging and 12V car charging, meeting replenishment needs in different scenarios.

All-in-One Output Ports: Multiple independent output ports including AC, USB-A, Type-C PD, 12V DC outlet and wireless charging, powering multiple devices at the same time.

UPS Uninterrupted Backup: Less than 20ms switching time during grid outage, providing seamless power supply for small sensitive electronics.

Portable Carry Handle: Built-in folding handle with compact body design, easy to carry and store, ideal for outdoor and mobile scenarios.

Intelligent Full Protection: Built-in multi-level BMS protection for over-voltage, under-voltage, over-current, short circuit, over-temperature and reverse polarity.

Clear LCD Display: Real-time display of battery level, input/output power, working status and fault alarms, intuitive and easy to operate.

Key Specifications

Battery System

Item	Parameter
Battery Type	LiFePO4 (Lithium Iron Phosphate)
Battery Configuration	7S3P
Nominal Voltage	22.4V
Rated Capacity	46.9Ah
Rated Energy	1050Wh
Charging Methods	AC Mains / MPPT Solar / 12V Car Charger
Net Weight	15.14 kg
Dimensions	366 × 235 × 266 mm (L×W×H)

AC Output & Charging

Item	Parameter
Rated AC Output Power	1200W
Peak AC Output Power	1800W
Output Waveform	Pure Sine Wave
Output Voltage	100Vac (96–105Vac)
Output Frequency	50Hz / 60Hz switchable
UPS Switching Time	< 20ms
AC Charging Power	850W Max.
Solar Charging Power	400W Max. (built-in MPPT)
Solar Input Voltage	11–50V DC

Detailed Technical Parameters

No.	Item	General Parameter	Remark
1	Battery Type	LiFePO4	7 series 3 parallel configuration
2	Nominal Voltage	22.4V	Battery pack rated voltage
3	Rated Capacity	46.9Ah	Standard test condition
4	Rated Stored Energy	1050Wh	—
5	AC Rated Output	1200W	Resistive load
6	AC Peak Output	1800W	Instant surge power
7	AC Output Waveform	Pure Sine Wave	—
8	AC Charging Input	100–120Vac, 850W Max.	50/60Hz
9	Solar Charging Input	11–50V DC, 400W Max.	Built-in MPPT, XT60 port
10	UPS Switching Time	< 20ms	Seamless outage switch
11	Operating Temperature	Charge: 0 ~ 40 ; Discharge: -10 ~ 40	Product label specification
12	Protection Functions	Over-voltage / Under-voltage / Over-current / Short circuit / Over-temperature / Reverse polarity	Intelligent BMS
13	Product Dimension	366 × 235 × 266 mm	L × W × H
14	Net Weight	15.14 kg	—
15	Display	LCD screen with real-time status indicators	—
16	Frequency Switching	50Hz / 60Hz selectable	—

Output Ports & Functions

All output channels are independently controllable via front panel buttons:

AC Output: 3 × AC sockets, 1200W rated pure sine wave output, for household appliances and small power tools.

USB-A Output: 2 × 5V 2.4A regular ports + 1 × QC3.0 18W fast charging port, for mobile phones and small electronics.

Type-C Output: 1 × PD 100W port + 2 × PD 45W ports, for laptops, tablets and fast-charging devices.

12V DC Car Outlet: 12V 8.3A (100W Max.), for automotive appliances and 12V devices.

Wireless Charging: 15W wireless charging pad on the top surface.

LED Lighting: Built-in 3W LED light with steady-on and SOS modes for outdoor lighting and emergency use.

Application Scenarios

Outdoor camping, short trips and RV travel power supply

Home small emergency backup during power outages

Field work, outdoor operations and mobile office power supply

Outdoor photography, drone and camera equipment power supply

Emergency rescue and disaster relief power support

Small off-grid sites and temporary power supply scenarios

Frequently Asked Questions

Q: What appliances can this 1200W portable power station run?

A: It can power most daily devices within 1200W, such as laptops, TVs, small refrigerators, electric kettles, coffee makers, cameras and small power tools. The 1800W peak power supports short-time startup of inductive loads.

Q: How many charging methods are supported?

A: It supports 3 flexible charging methods: 850W AC wall charging, 400W MPPT solar panel charging, and 12V car charging during travel.

Q: Does it have a UPS backup function?

A: Yes. When connected to the grid, it works in UPS mode. If the mains power cuts off, it switches to battery output within 20ms, keeping small sensitive devices running normally.

Q: How long does it take to fully charge?

A: With 850W AC charging, it takes about 1.5–2 hours to fully charge from 0 to 100%. Solar charging time varies with irradiance and panel power.

Q: Is it safe for indoor and outdoor use?

A: Yes. It adopts safe LiFePO4 battery chemistry and full BMS protection functions. The pure sine wave output is compatible with all household appliances. We recommend using it in a dry, ventilated environment.

Certifications & Warranty

100% full inspection and aging test before delivery, with strict quality control throughout production.

Complies with international safety standards and holds CE, FCC, ROHS, MSDS and UN38.3 certifications.

Built with premium grade-A LiFePO4 cells, with stable performance and long service life.

Official Warranty: 1-year product warranty from the date of delivery, covering replacement for quality defects under normal use.

Professional technical team provides pre-sales consultation and after-sales technical support.

OEM/ODM customization is available for bulk wholesale orders.

Product Display

Below are multi-angle product images of the K5 1200W portable power station, presenting the front control panel, multi-type output ports, side cooling vents, folding carry handle and top wireless charging area in detail, for your direct reference.















Dongguan KunTeng New Energy Technology Co., Ltd.

15973225095 grace@tinko.com.cn tinkopower.com

Room 1001, Building 4, No. 57 Fengguan Road, Fenggang Town, Dongguan City, Guangdong, China