2000W 2160Wh Portable Power Station | LiFePO4 Solar Generator for Outdoor & Home Backup | D5

Our Product Introduction

Basic Information

- Place of Origin: Dongguan, Guangdong, China
- Brand Name: TINKO
- Certification: CE/ROHS/MSDS/UN38.3
- Model Number: D5
- 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: 48V
- Battery Capacity: 45Ah / 2160Wh
- AC Output Power: 2000W Rated / 4000W Peak
- Output Waveform: Pure Sine Wave
- Charging Methods: AC 1500W / 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: 463 × 289 × 366 Mm
- Net Weight: Approx. 28.8 Kg
- Operating Temperature: Charge: 0 ~40 ; Discharge: -10 ~40
- Protection System: Intelligent BMS With Full Safety Protections



More Images





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Product Description

Product Overview

The D5 is a high-capacity portable energy storage power station manufactured by TINKO, built with premium grade-A 15S3P LiFePO4 battery cells and an intelligent BMS system. It delivers 2160Wh of stored energy with 2000W rated pure sine wave AC output (4000W peak power), supporting three charging methods including 1500W AC fast charging, 400W MPPT solar charging and 12V car charging.

Equipped with full-range output ports covering AC, USB-A, Type-C PD, 12V DC car outlet and wireless charging, this all-in-one portable power supply is widely used for outdoor camping, RV travel, home emergency backup, field work, outdoor photography and emergency rescue scenarios.

Key Features

Grade-A LiFePO4 Battery: Reliable 15S3P lithium iron phosphate cells with built-in intelligent BMS, offering higher safety, stable performance and long service life.

2000W High Power Output: 2000W continuous pure sine wave AC output with 4000W surge peak power, compatible with most household appliances and power tools.

3-in-1 Fast Charging: Supports 1500W AC mains charging, 400W MPPT solar charging and 12V car charging; AC and solar can charge simultaneously for faster energy replenishment.

All-in-One Output Ports: Multiple independent output ports including AC, USB-A fast charge, Type-C PD, 12V DC car outlet and wireless charging.

UPS Uninterrupted Backup: Less than 20ms switching time during grid outage, providing seamless power supply for sensitive electronics such as routers, monitors and workstations.

Portable Integrated Design: Built-in carry handle with rugged housing and compact size for easy transport and storage, ideal for mobile and outdoor 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	15S3P
Nominal Voltage	48V
Rated Capacity	45Ah
Rated Energy	2160Wh
Charging Methods	AC Mains / MPPT Solar / 12V Car Charger
Net Weight	28.8 kg
Dimensions	463 × 289 × 366 mm (L×W×H)

AC Output & Charging

Item	Parameter
Rated AC Output Power	2000W
Peak AC Output Power	4000W
Output Waveform	Pure Sine Wave
Output Voltage	200–240Vac
Output Frequency	50Hz / 60Hz switchable
UPS Switching Time	< 20ms
AC Charging Power	1500W 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	15 series 3 parallel configuration
2	Nominal Voltage	48V	Battery pack rated voltage
3	Rated Capacity	45Ah	Standard test condition
4	Rated Stored Energy	2160Wh	—
5	AC Rated Output	2000W	Resistive load
6	AC Peak Output	4000W	Instant surge power
7	AC Output Waveform	Pure Sine Wave	—
8	AC Charging Input	180–264Vac, 1500W Max.	50/60Hz
9	Solar Charging Input	11–50V DC, 400W Max.	Built-in MPPT
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	463 × 289 × 366 mm	L × W × H
14	Net Weight	28.8 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 × universal AC sockets, 2000W rated pure sine wave output, for household appliances and power tools.
- **USB-A Output:** 4 × 5V 2.4A regular ports + 2 × QC3.0 18W fast charging ports, 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: 12.5V 8A (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 for outdoor lighting and emergency use.

Application Scenarios

Outdoor camping, glamping and RV travel power supply

Home emergency backup during power outages

Field work, construction sites and outdoor operations

Outdoor photography, filming and drone power supply

Emergency rescue and disaster relief power support

Off-grid cabins and remote site power supply

Frequently Asked Questions

> **Q: What appliances can this 2000W portable power station run?**
>
> A: It can power most household and outdoor devices within 2000W, such as refrigerators, TVs, electric cookers, coffee makers, laptops, power tools and small medical devices. The 4000W peak power supports short-time startup of inductive loads.

> **Q: How many charging methods are supported?**
>
> A: It supports 3 flexible charging methods: 1500W AC wall charging (fastest), 400W MPPT solar panel charging, and 12V car charging during travel. AC and solar charging can work at the same time.

> **Q: Does it work as a UPS for home backup?**
>
> 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, which is fast enough to keep sensitive devices like computers and routers running without interruption.

> **Q: How long does it take to fully charge?**
>
> A: With 1500W AC fast 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: What is the warranty policy?**
>
> A: We provide a 1-year official product warranty from the date of delivery, covering replacement for quality defects under normal use. Built with premium grade-A LiFePO4 cells, the product has a 10-year design service life under standard operating conditions.

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 D5 2000W portable power station, presenting the front control panel, multi-type output ports, rear cooling system, built-in trolley wheels and integrated handle design in detail, for your direct reference.











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