# 600W 540Wh Portable Power Station | 18650 Lithium Battery Solar Generator for Outdoor & Home Backup | M5

Our Product Introduction

## Basic Information

- Place of Origin: Dongguan, Guangdong, China
- Brand Name: TINKO
- Certification: CE/ROHS/MSDS/UN38.3
- Model Number: M5
- 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: ICR18650 Lithium-ion ($LiCoMnNiO_2$)
- Battery Voltage: 21.6V
- Battery Capacity: 25Ah / 540Wh
- AC Output Power: 600W Rated / 1200W Peak
- Output Waveform: Pure Sine Wave
- Charging Methods: DC 100W Adapter / Solar 100W / 12V Car Charging
- Output Ports: AC / USB-A / QC3.0 / Type-C PD 65W / 12V DC Car Outlet / DC 5521
- Display: LCD Screen With Real-time Status Monitoring
- Dimensions: 275 × 170 × 215 Mm
- Net Weight: Approx. 5.4 Kg
- Operating Temperature: Charge: 0 ~40 ; Discharge: -10 ~40
- Protection System: Intelligent BMS With Full Safety Protections
- Safety Certifications: CE/ROHS/MSDS/UN38.3



## More Images



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# Product Description

## Product Overview

The M5 is a compact, lightweight portable power station manufactured by TINKO, built with premium 18650 lithium-ion cells and an intelligent BMS system. It delivers 540Wh of stored energy with a 600W rated pure sine wave AC output (1200W peak power) and supports three charging methods: 100W DC adapter charging, solar charging, and 12V car charging.

Equipped with a full range of output ports covering AC, USB-A fast charge, Type-C PD 65W, 12V DC car outlet, and DC 5521 ports, the M5 supports charge-while-discharge operation. It is widely used for short outdoor trips, camping, small home emergency backup, mobile office, and digital device charging scenarios.

## Key Features

**Compact & Lightweight Design:** 5.4kg net weight with a built-in carry handle for easy transport and storage — ideal for short trips and outdoor scenarios.

**600W Pure Sine Wave Output:** 600W continuous AC output with 1200W surge peak power, compatible with most daily household appliances and digital devices.

**3-in-1 Flexible Charging:** Supports 100W DC wall adapter charging, solar panel charging, and 12V car charging to meet replenishment needs in different scenarios.

**All-in-One Output Ports:** Multiple independent output ports including AC, USB-A, QC3.0, Type-C PD, 12V DC outlet, and DC 5521, powering multiple devices simultaneously.

**Charge While Discharge:** Supports simultaneous charging and discharging, functioning as a small UPS for continuous power supply.

**Intelligent BMS Protection:** Built-in multi-level protection against over-voltage, under-voltage, over-current, short circuit, and over-temperature for safe operation.

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

**Wide Temperature Adaptability:** Stable discharge performance from -10  to 40 , suitable for various outdoor environments.

## Key Specifications

### Battery System

| Item | Parameter |
|---|---|
| Battery Type | ICR18650 Lithium-ion ($LiCoMnNiO_2$) |
| Battery Configuration | 6S10P |
| Nominal Voltage | 21.6V |
| Rated Capacity | 25Ah |
| Rated Energy | 540Wh |
| Charging Methods | DC Adapter / Solar / 12V Car Charger |
| Net Weight | 5.4 kg |
| Dimensions | 275 × 170 × 215 mm (L×W×H) |

### AC Output & Charging

| Item | Parameter |
|---|---|
| Rated AC Output Power | 600W |
| Peak AC Output Power | 1200W |
| Output Waveform | Pure Sine Wave |
| Output Voltage | 110Vac / 220Vac selectable |
| Output Frequency | 50Hz / 60Hz switchable |
| AC Charging Power | Not applicable (charged via DC adapter) |
| Solar Charging Power | 100W Max. |
| Solar Input Voltage | 12–29V DC |

### Detailed Technical Parameters

| No. | Item | General Parameter | Remark |
|---|---|---|---|
| 1 | Battery Type | ICR18650 Lithium-ion | 6 series 10 parallel configuration |
| 2 | Nominal Voltage | 21.6V | Battery pack rated voltage |
| 3 | Rated Capacity | 25Ah | Standard test condition |
| 4 | Rated Stored Energy | 540Wh | — |
| 5 | AC Rated Output | 600W | Resistive load |
| 6 | AC Peak Output | 1200W | Instant surge power |
| 7 | AC Output Waveform | Pure Sine Wave | — |
| 8 | DC Charging Input | 12–29V DC, 100W Max. | Adapter / solar / car charging |
| 9 | Solar Charging Input | 12–29V DC, 100W Max. | 7909 port |
| 10 | Charge While Discharge | Yes | Non-professional UPS function |
| 11 | Operating Temperature | Charge: 0 ~ 40 ; Discharge: -10 ~ 40 | Specification standard |
| 12 | Protection Functions | Over-voltage / Under-voltage / Over-current / Short circuit / Over-temperature | Intelligent BMS |
| 13 | Product Dimension | 275 × 170 × 215 mm | L × W × H |
| 14 | Net Weight | 5.4 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:** Pure sine wave AC output, 600W rated power, for small household appliances and digital devices.

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

**Type-C Output:** 1 × PD 65W port, for laptops, tablets, and fast-charging devices.

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

**DC 5521 Output:** 2 × DC 5521 ports, 12V 8.3A in parallel with the car outlet.

**LCD Display:** Real-time battery level, input/output power, and working status display.

### Application Scenarios

- Short outdoor camping, fishing, and hiking power supply
- Small home emergency backup during power outages
- Mobile office and outdoor work power supply
- Drone, camera, and photography equipment outdoor charging
- Road trip and RV travel auxiliary power supply
- Small off-grid sites and temporary power supply scenarios

### Frequently Asked Questions

**Q: What devices can this 600W portable power station run?**

A: It can power most daily devices within 600W, such as laptops, routers, small refrigerators, electric fans, cameras, drones, and mobile phones. The 1200W peak power supports short-time startup of small inductive loads.

**Q: How many charging methods are supported?**

A: It supports 3 charging methods: 100W DC wall adapter charging, 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: Does it support charging while discharging?**

A: Yes. It supports simultaneous charging and discharging, which can be used as a small uninterrupted power supply for continuous device operation.

**Q: How long does it take to fully charge?**

A: With 100W DC adapter charging, it takes about 6–7 hours to fully charge from 0 to 100%. Solar charging time varies with irradiance and panel power.

### Certifications & Warranty

- 100% full inspection before delivery, with strict quality control throughout production.
- Complies with international safety standards and holds CE, FCC, ROHS, PSE, and UN38.3 certifications.
- Built with premium 18650 lithium-ion cells for stable performance and reliable quality.
- 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 M5 600W portable power station, presenting the front control panel, multi-type output ports, side cooling grille, top integrated carry handle, and compact lightweight body design in detail for your direct reference.


DC
POWER
AC
INPUT
12V-24V
000
005
100 %
12V-8A
USB
5V-2.4A
USB-C 65W
QC18W
PURE SINE WAVE
850W


PURE SINE WAVE







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