

Segway LM-500

Segway Lumina 500 Portable Power Station User Manual

Model: LM-500

1. INTRODUCTION

The Segway Lumina 500 Portable Power Station is a versatile and reliable power solution designed for various applications, from outdoor adventures to emergency backup. Featuring a robust LiFePO4 battery, it provides stable and efficient power for your electronic devices and small appliances. This manual provides essential information for safe and effective use of your Lumina 500.

Key Features:

- 512Wh capacity with 600W continuous AC output (1200W peak).
- Durable LiFePO4 battery with 3000+ lifecycles for long-lasting performance.
- Multiple charging options: wall, solar, and car.
- 9 output ports, including dual 100W USB-C PD ports.
- Advanced Battery Management System (BMS) for enhanced safety.
- Lightweight and portable design (15.9 lbs).

2. WHAT'S IN THE BOX

Please check the contents of your package to ensure all items are present:

- Segway Lumina 500 Portable Power Station (LM-500) x 1
- AC Charging Cable x 1
- Car Charging Cable x 1
- User Manual x 1
- Warranty Policy x 1

3. SETUP

Before first use, ensure your Lumina 500 is fully charged. Place the unit on a stable, flat surface in a well-ventilated area, away from direct sunlight or heat sources.



Figure 3.1: Front view of the Segway Lumina 500, highlighting the display and various output ports.

4. OPERATING INSTRUCTIONS

To power on the unit, press and hold the main power button until the display illuminates. The LCD display will show the current battery level, input/output wattage, and estimated remaining runtime.

To activate AC output, press the 'AC OUT' button. To activate DC output, press the 'DC OUT' button. Ensure the output is enabled before connecting devices.

When not in use, press and hold the main power button to turn off the unit to conserve battery life.

5. CHARGING THE LUMINA 500

The Lumina 500 offers flexible charging options to suit your needs:

5.1. Wall Charging

Connect the provided AC charging cable to the AC Fastcharge input port on the back of the unit and plug it into a standard wall outlet. The unit can fully recharge in approximately 1.2 hours.

Operate in Extreme Climates



Figure 5.1: Charging the Lumina 500 using the included AC wall charger.

5.2. Solar Charging

Connect compatible solar panels (sold separately) to the Solar/Car Input port. The unit can be recharged in approximately 3 hours with optimal sunlight conditions.



Figure 5.2: The Lumina 500 connected to a solar panel for eco-friendly charging.

5.3. Car Charging

Use the provided car charging cable to connect the unit to your vehicle's 12V car outlet. A full charge takes approximately 5 hours.

3 Ways to Charge Your LUMINA

Recharge 80% in **1 Hour**

- AC Outlet
- Solar Panel
- Car Outlet



Figure 5.3: Conveniently charge your Lumina 500 using your car's power outlet.

6. OUTPUT PORTS

The Lumina 500 is equipped with 9 versatile output ports to power a wide range of devices:

- **AC Outlets:** 2 x 120V AC outlets (600W continuous, 1200W peak) for standard household appliances.
- **USB-C Ports:** 2 x 100W USB-C PD ports for fast charging laptops, tablets, and smartphones.
- **USB-A Ports:** 4 x USB-A 18W ports for charging various USB-powered devices.
- **Car Outlet:** 1 x 12V car outlet for automotive accessories.

7. DURABILITY AND SAFETY

The Segway Lumina 500 is built with durability and safety in mind:

- **LiFePO4 Battery:** Features a long-lasting Lithium Iron Phosphate (LFP) battery with over 3000 lifecycles,

providing approximately 10 years of use.

- **Advanced BMS:** An intelligent Battery Management System (BMS) ensures safe operation by protecting against over-charging, over-current, over-discharge, over-voltage, short circuits, and temperature fluctuations.
- **UL 2743 Certified:** Meets rigorous safety standards for portable power packs.
- **Extreme Climate Operation:** Designed to operate reliably in various environmental conditions.



Figure 7.1: The durable LiFePO4 battery cells inside the Lumina 500.



Figure 7.2: The Lumina 500 is built to perform even in extreme temperatures.

8. MAINTENANCE

To ensure the longevity and optimal performance of your Segway Lumina 500, follow these maintenance guidelines:

- Store the unit in a cool, dry place away from direct sunlight and extreme temperatures.
- Recharge the unit at least once every 3-6 months if not in regular use to maintain battery health.
- Clean the exterior with a soft, dry cloth. Do not use abrasive cleaners or immerse the unit in water.
- Keep ventilation openings clear of dust and debris to prevent overheating.

9. TROUBLESHOOTING

If you encounter issues with your Lumina 500, refer to the following common troubleshooting steps:

- **Unit Not Turning On:** Ensure the battery is charged. If not, connect to a power source.
- **No Output from Ports:** Check if the AC/DC output buttons are enabled. Ensure the connected device is within the power station's wattage limits.
- **Overload Protection Activated:** If the overload protector light is on, disconnect some devices to reduce the load. Turn the unit off and on again to reset.
- **Slow Charging:** Verify that the charging cable is securely connected. For solar charging, ensure panels are in direct sunlight and free of obstructions.

If problems persist, please contact Segway customer support for assistance.

10. SPECIFICATIONS

Feature	Specification
Brand	Segway
Model Name	LM-500
Battery Type	LiFePO4
Capacity	512Wh
AC Output (Continuous)	600W
AC Output (Peak)	1200W
USB-C PD Output	Dual 100W
USB-A Output	4 x 18W
Car Outlet	12V
Weight	15.9 lbs






Feature	Specification
Dimensions (L x W x H)	9.6"L x 7.2"W x 11.3"H
Certifications	UL 2743

11. WARRANTY AND SUPPORT

The Segway Lumina 500 Portable Power Station comes with a **5-year manufacturer's warranty**. For any warranty claims, technical support, or product inquiries, please refer to the contact information provided in your Warranty Policy document or visit the official Segway website.

Please retain your proof of purchase for warranty validation.

Related Documents - LM-500

	Segway LUMINA Series LM-500 Portable Power Station North American Limited Warranty and Arbitration Agreement This document details the North American Limited Warranty and Arbitration Agreement for the Segway LUMINA Series (LM-500) portable power station, covering warranty terms, service procedures, exclusions, and dispute resolution.
	Segway Portable Power Station LM-500 User Manual User manual for the Segway Portable Power Station LM-500, covering safety instructions, product overview, operation, charging, settings, specifications, and troubleshooting for optimal performance and longevity.
	Посібник користувача Segway LM-500: Портативна електростанція Дізнайтеся, як безпечно використовувати та обслуговувати вашу портативну електростанцію Segway LM-500. Цей посібник містить інструкції з техніки безпеки, огляд продукту, технічні характеристики та поради з усунення несправностей.
	Segway GT Series SuperScooter User Manual Comprehensive user manual for the Segway GT1 and GT2 electric scooters, covering diagrams, functions, dashboard indicators, speed modes, specifications, troubleshooting, and certifications.
	Segway SuperScooter GT Series Product Manual Comprehensive product manual for the Segway SuperScooter GT1 and GT2, detailing diagrams, functions, dashboard indicators, speed modes, specifications, and troubleshooting guidance.



[Segway KickScooter GT Series User Manual - Features, Specs, and Troubleshooting](#)

Comprehensive user manual for the Segway KickScooter GT series (GT1, GT2). Learn about product features, handlebar controls, dashboard indicators, speed modes, technical specifications, and troubleshooting. Visit [Segway.com](#) for updates.