

ELECAENTA G600

ELECAENTA Portable Power Station G600 User Manual

Model: G600

1. INTRODUCTION

The ELECAENTA Portable Power Station G600 is a versatile and reliable power source designed for various applications, including outdoor activities, emergency backup, and mobile power needs. With a 600Wh capacity and 600W pure sine wave AC output, it can power a wide range of electronic devices and small appliances. This manual provides essential information for the safe and efficient operation and maintenance of your power station.

2. SAFETY INSTRUCTIONS

Please read and understand all safety instructions before using the ELECAENTA Portable Power Station G600. Failure to follow these instructions may result in electric shock, fire, or serious injury.

- Do not disassemble, repair, or modify the unit. Incorrect reassembly may cause fire or electric shock.
- Do not expose the unit to fire or high temperatures.
- Do not use or store the unit in direct sunlight or in hot environments.
- Do not use or store the unit in a bathroom or in areas exposed to water or moisture.
- Do not drop or subject the unit to strong impacts.
- Keep out of reach of children.
- Ensure proper ventilation during use and charging to prevent overheating.
- The unit is equipped with multiple protection functions, including short circuit, overload, overheat, overvoltage, and overcurrent protection.
- This product is certified with PSE, UN38.3, and MSDS for safety compliance.

初心者でも安心感たっぷり

世界最先端のBMS管理システム搭載、日本国内のPSE安全審査も合格済み、蓄電池使用中の安全を確保できる



PSE



MSDS



UN38.3



CE



FCC



短絡保護



過負荷保護



過熱保護



過電圧保護



過電流保護

Image: Internal components and safety certifications. The unit features a Battery Management System (BMS) and Microcontroller Unit (MCU) for enhanced safety and performance. It has passed various safety standards including PSE, MSDS, UN38.3, CE, and FCC, offering protection against short circuits, overload, overheating, overvoltage, and overcurrent.

3. PACKAGE CONTENTS

Please check that all items are included in your package:

- ELECAENTA Portable Power Station G600
- AC Adapter
- Car Charger Cable
- MC4 to DC Cable (for solar charging)
- User Manual



Image: The package includes the ELECAENTA G600 power station, an AC adapter, a car charger cable, an MC4 to DC cable for solar panels, and the user manual.

4. PRODUCT FEATURES

The ELECAENTA G600 is designed for convenience and performance:

- **High Capacity & Output:** 600Wh battery capacity with 600W AC pure sine wave output, suitable for sensitive electronics.
- **Multiple Output Ports:** Equipped with 9 output ports to power various devices simultaneously.
- **Advanced Battery Technology:** Utilizes a ternary lithium polymer battery for enhanced safety, performance, and a long cycle life of approximately 1000 cycles (to 80% capacity).
- **Compact & Lightweight Design:** Measuring 28.6cm x 19.8cm x 20.8cm and weighing 5.43kg, it is highly portable.
- **Clear LCD Display:** An intuitive LCD screen provides real-time information on battery level, input/output wattage, and fault warnings.
- **Integrated LED Light:** Features a high-brightness LED light with multiple modes for illumination during power

outages or outdoor use.

一目瞭然LCDディスプレイ

電池残量や入力/出力W数など詳しく表示されている



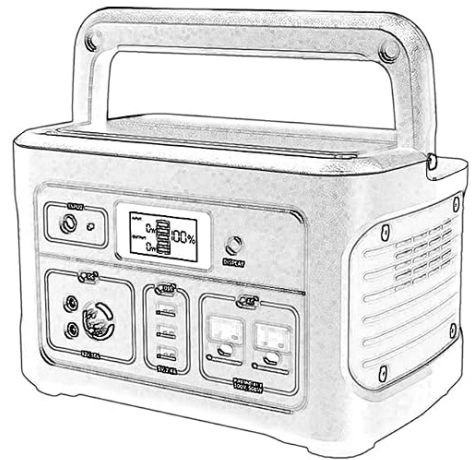
Image: The clear LCD display shows critical information such as battery charge level, AC output, DC output, USB/USB-C output, and charging input, along with fault warnings and overheat protection indicators.

三元系リチウムポリマー電池採用

電動自動車業界注目されているサイクル寿命の長い電池を採用



VS



本商品採用
三元系リチウムポリマー電池

従来品採用
リチウムイオン(18650)電池

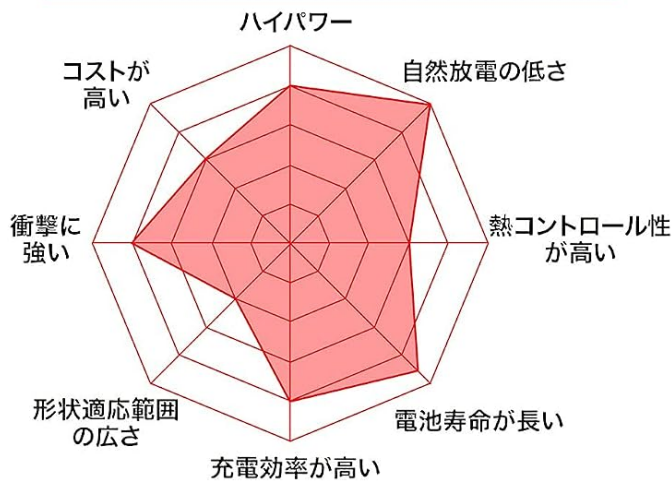
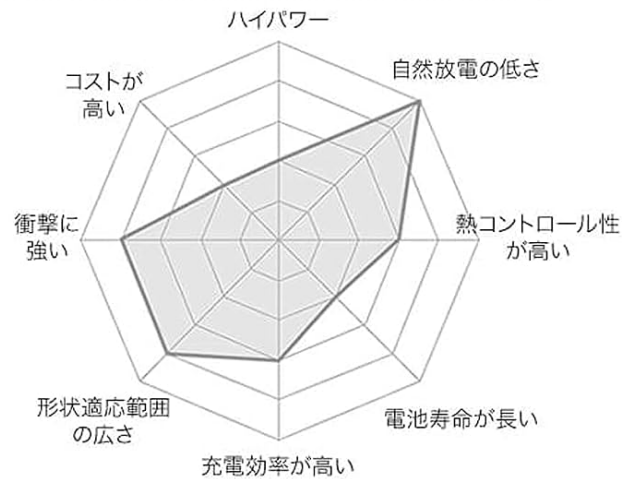


Image: This diagram illustrates the advantages of the Ternary Lithium Polymer battery used in the G600, highlighting its high power, low self-discharge, superior thermal control, long battery life, wide shape adaptability, and high charging efficiency compared to conventional Lithium Ion (18650) batteries.

5. SETUP

Before first use, fully charge your ELECAENTA G600 power station.

1. **Unpack:** Carefully remove the power station and all accessories from the packaging.
2. **Initial Charge:** Connect the AC adapter to the power station's input port and then to a wall outlet. The LCD display will show the charging status.
3. **Full Charge:** Allow the unit to charge until the battery indicator on the LCD display shows 100%. This typically takes about 9.5 hours with the AC adapter.

6. OPERATING INSTRUCTIONS

6.1 Charging the Power Station

The G600 supports four charging methods:

- **AC Wall Outlet:** Use the provided AC adapter. Full charge in approximately 9.5 hours.
- **Car Charger:** Use the provided car charger cable. Full charge in approximately 9.5 hours.
- **Solar Panel:** Connect a compatible 120W solar panel (sold separately) using the MC4 to DC cable. The unit features MPPT charge control for efficient solar charging. Full charge in approximately 9.5 hours under optimal sunlight.
- **Generator:** Can be charged via a generator (output specifications must match the power station's input requirements).

The power station supports pass-through charging, allowing you to power devices while the unit itself is being charged.



Image: The ELECAENTA G600 can be charged using a 120W solar panel (approx. 9.5 hours), an AC adapter from a home outlet (approx. 9.5 hours), or a car charger (approx. 9.5 hours).

6.2 Using Output Ports

The G600 features 9 output ports:

- 2 x AC Outlets (Pure Sine Wave, 110V/60Hz, 600W total)
- 1 x USB-A Port
- 1 x USB-QC3.0 Port
- 2 x USB-C Ports
- 2 x DC Ports (12V/8A)
- 1 x Car Cigarette Lighter Socket (12V/8A)

To use an output port:

1. Press the corresponding power button (AC, DC, or USB) to activate the output. The indicator light will illuminate.
2. Connect your device to the desired output port.
3. The LCD display will show the current output wattage.
4. When finished, press the power button again to turn off the output and conserve battery.

6.3 Using the LED Light

The G600 includes a multi-mode LED light:

1. Press the LED light button once to turn on the light at its lowest brightness setting.
2. Press again to cycle through medium brightness, high brightness, and SOS mode.
3. Press a final time to turn off the LED light.

停電時の強い味方



Image: The integrated LED light provides illumination, useful during power outages or in low-light environments. It offers multiple brightness settings to suit various needs.

7. MAINTENANCE

Proper maintenance ensures the longevity and performance of your power station:

- **Storage:** Store the unit in a cool, dry place away from direct sunlight and extreme temperatures.
- **Charging Frequency:** For optimal battery health, fully charge the unit every 3-6 months, even if not in use.
- **Cleaning:** Use a dry, soft cloth to clean the exterior of the unit. Do not use abrasive cleaners or immerse the unit in water.
- **Ventilation:** Ensure the ventilation openings are clear of dust and debris to prevent overheating.

8. TROUBLESHOOTING

If you encounter issues with your ELECAENTA G600, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Unit does not turn on	Battery is completely discharged; Power button not pressed correctly.	Charge the unit immediately; Press and hold the main power button for a few seconds.
No output from AC/DC/USB ports	Output port not activated; Device draws too much power (overload); Cable issue.	Press the corresponding output button; Check device wattage against G600 specifications; Try a different cable.
Unit is not charging	Charging cable not connected properly; Faulty adapter/cable; Extreme temperature.	Ensure all connections are secure; Try a different charging method or cable; Move unit to a suitable temperature range (0-40°C).
LCD shows "Overheat Protection"	Unit is overheating due to heavy load or poor ventilation.	Turn off the unit, disconnect devices, and allow it to cool down in a well-ventilated area. Ensure vents are not blocked.
AC output less than 600W	Device's actual power consumption is lower; Unit's internal protection triggered.	Verify the actual power draw of your device; If the device requires exactly 600W, ensure no other devices are connected to AC outputs.

If the problem persists, please contact ELECAENTA customer support.

9. SPECIFICATIONS

Feature	Specification
Model	G600
Brand	ELECAENTA
Battery Type	Ternary Lithium Polymer
Capacity	600Wh
AC Output	2 x 110V/60Hz, 600W (Pure Sine Wave)
DC Output	2 x 12V/8A
Car Port Output	1 x 12V/8A
USB-A Output	1 x Standard USB-A
USB-QC3.0 Output	1 x Quick Charge 3.0 USB
USB-C Output	2 x USB-C
Charging Input	AC Adapter, Car Charger, Solar Panel (MPPT)

Feature	Specification
Dimensions (L x W x H)	28.6 cm x 19.8 cm x 20.8 cm
Weight	5.43 kg
Cycle Life	Approx. 1000 cycles (to 80% capacity)
Safety Certifications	PSE, UN38.3, MSDS, CE, FCC
UPC	192236684595



Image: The physical dimensions of the ELECAENTA G600 are approximately 28.6 cm in length, 20.8 cm in width, and 19.8 cm in height, making it a compact and portable unit.

10. WARRANTY & SUPPORT

ELECAENTA provides a standard 1-year warranty for the G600 Portable Power Station. You can extend this warranty to 2 years by registering your product. For any inquiries, technical support, or warranty claims, please contact ELECAENTA

customer service via the official email address provided in your product documentation or on the official ELECAENTA website.

When contacting support, please have your purchase order number and product model (G600) ready.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page’s manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question