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› ELECAENTA 120W Portable Solar Panel User Manual

ELECAENTA LSFC-120

ELECAENTA 120W Portable Solar Panel User Manual

Brand: ELECAENTA | Model: LSFC-120

1. PRODUCT OVERVIEW

The ELECAENTA 120W Portable Solar Panel is a high-efficiency, foldable solar charger designed for outdoor use, providing power to various electronic devices and portable power stations. Featuring monocrystalline silicon cells, it boasts a conversion efficiency of up to 25%, making it an ideal solution for off-grid power needs.



Figure 1.1: The ELECAENTA 120W Portable Solar Panel unfolded, showcasing its four panels and included connection cables and adapters.

This solar panel is equipped with multiple output ports, including a 45W USB-C, a QC 3.0 USB, and a DC (5.5*2.1mm) output, ensuring broad compatibility with smartphones, laptops, tablets, drones, and other USB-powered devices. Its durable ETFE laminate material and IPX5 water-resistant design make it suitable for various outdoor environments, from camping to RV trips.

2. PACKAGE CONTENTS

Please verify that all items listed below are included in your package:

- 1x ELECAENTA 120W Portable Solar Panel
- 1x DC 5.5 x 2.1mm to Solar Connector Cable
- 1x DC 5.5 x 2.1mm to Anderson/ XT60/ 8020 Cable
- 1x 10-in-1 Connector Cable
- 4x Carabiner Clips
- 1x User Manual

WHAT YOU WILL GET IN THE PACKAGE

1* 120W Portable Solar Panel, 1* DC5521 to Anderson/ XT60/ 8020 Cable
1* DC5521 to Solar Connector Cable, 1* 10-in-1 Connector Cable, 4* Carabiner Clips, 1* User Manual



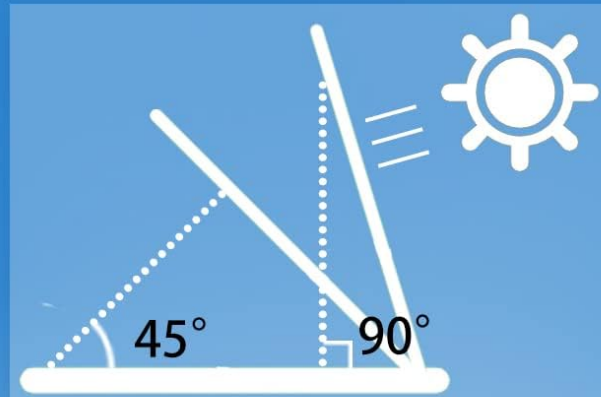
Figure 2.1: Visual representation of the ELECAENTA 120W Portable Solar Panel and all included accessories.

3. SETUP INSTRUCTIONS

1. **Unfold the Solar Panel:** Carefully unfold the ELECAENTA 120W Portable Solar Panel completely.
2. **Position for Optimal Sunlight:** Place the solar panel in direct sunlight. Utilize the integrated kickstands to adjust the angle of the panel between 45° and 90° for optimal sun orientation. This maximizes energy absorption and charging efficiency.

GREAT OPTION FOR CAMPING ROAD TRIPS

Bundled with EM200 power station and 120W solar panel



Adjustable angle from 45° to 90°
for optimal sun orientation



Figure 3.1: The solar panel set up with its adjustable kickstands, demonstrating optimal angling towards the sun.

3. **Connect Your Device:** Locate the charging box on the solar panel. Select the appropriate cable and connector from the included accessories for your device or power station. Connect the cable to the corresponding output port (USB-C, QC 3.0 USB, or DC) on the solar panel and then to your device.

4. OPERATING INSTRUCTIONS

The ELECAENTA 120W Portable Solar Panel is designed for straightforward operation. Once set up in direct sunlight and connected to your device, it will begin charging automatically.

4.1 Charging Devices

- **USB-C (PD 45W):** For fast charging compatible laptops, tablets, and smartphones.
- **USB QC 3.0:** For quick charging compatible smartphones and other USB devices.
- **DC (5.5*2.1mm):** Use with the provided DC cables and 10-in-1 connectors to charge various portable power stations and other DC-powered devices.



Figure 4.1: The solar panel's charging box with various output ports connected to a laptop and smartphone.

4.2 Important Considerations for Charging

- **Sunlight Dependency:** The portable solar panel converts sunlight directly into electricity. Charging performance is highly dependent on factors such as light intensity, elevation, temperature, time of year,

and the angle/position relative to the sun. Optimal charging occurs under direct, strong sunlight.

- **Fast Charging:** Fast charging functions (QC 3.0, Type-C PD45W) require your charging cable and mobile device to support these protocols. If your device does not support these, the solar panel will provide standard charging.
- **Cable Compatibility:** Always use the original or certified power cords for your devices to ensure safe and efficient charging.

5. MAINTENANCE

Proper maintenance will extend the lifespan and ensure optimal performance of your ELECAENTA 120W Portable Solar Panel.

- **Cleaning:** Regularly wipe the solar panel surface with a soft, damp cloth to remove dust, dirt, or debris that may accumulate and reduce efficiency. Avoid abrasive cleaners or harsh chemicals.
- **Water Resistance:** The surface of the solar panel is IPX5 water-resistant, protecting it from splashes and light rain. However, the junction box (where the ports are located) is not waterproof. **Do NOT immerse the folding panel in water.** Avoid using the panel in heavy rain or highly humid environments to prevent damage to the electrical components.
- **Storage:** When not in use, fold the solar panel and store it in a dry, cool place away from direct sunlight and extreme temperatures.
- **Handling:** Handle the panel with care to avoid physical damage to the solar cells or the ETFE laminate.

6. TROUBLESHOOTING

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

Problem	Possible Cause	Solution
No power output / Low charging speed	Insufficient sunlight, incorrect angle, dirty panel surface, incompatible cable/device, high ambient temperature.	Ensure direct sunlight exposure. Adjust panel angle for optimal sun orientation. Clean the panel surface. Verify cable and device compatibility. Move to a cooler environment if overheating is suspected.
Fast charging not working	Device or cable does not support fast charging protocols (QC 3.0, PD45W).	Confirm that both your device and the charging cable support the specific fast charging protocol. If not, the panel will charge at standard speeds.
Panel not charging power station	Incorrect connector, power station input limits, or power station not compatible.	Use the correct DC5521 to Anderson/XT60/8020 cable and 10-in-1 connectors. Check your power station's input specifications. Ensure the power station's input voltage and current requirements are met by the solar panel.

7. SPECIFICATIONS

Feature	Detail
Brand	ELECAENTA
Model Number	LSFC-120
Material	Monocrystalline Silicon, ETFE, Rubber, Oxford
Product Dimensions (Unfolded)	19"L x 15"W x 2.17"H (Approx. 48.26cm L x 38.1cm W x 5.51cm H)
Folded Size	19" x 15" x 2.17" (Approx. 48.26cm x 38.1cm x 5.51cm)
Item Weight	9 Pounds (Approx. 4.08 kg)
Efficiency	25% High Efficiency Conversion
Maximum Power	120 Watts
Maximum Voltage	18 Volts
AC Adapter Current	6.6 Amps
Output Voltage	16V
Connector Types	USB-A, USB QC3.0, TYPE-C, DC5521
Special Features	Built-in 3m/117 inch 18 AWG DC wire; Durable and Scratch-resistant long-lasting ETFE Material
Water Resistance	IPX5 (for panel surface)

8. WARRANTY INFORMATION

The ELECAENTA 120W Portable Solar Panel comes with a manufacturer warranty for 12 months from the date of purchase. Please retain your proof of purchase for any warranty claims.

9. SUPPORT

For further assistance, technical support, or warranty inquiries, please contact ELECAENTA customer service through the retailer's platform or the official ELECAENTA website. You may also refer to the official User Manual PDF for more detailed information: [Download User Manual \(PDF\)](#).

