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› ELECAENTA UT-25H 25W Portable Solar Panel User Manual

ELECAENTA UT25-CA2026

ELECAENTA UT-25H 25W Portable Solar Panel User Manual

Brand: [ELECAENTA](#) | Model: [UT-25H \(UT25-CA2026\)](#)

1. INTRODUCTION

The ELECAENTA UT-25H is a compact and efficient 25W portable solar panel designed for charging various electronic devices on the go. Featuring advanced HPBC solar cells, it offers high conversion efficiency and durability, making it ideal for outdoor activities like camping, hiking, and backpacking. This manual provides essential information for the safe and effective use of your solar panel.

2. WHAT'S IN THE BOX

Please check the package contents upon receipt to ensure all items are present:

- 1 x ELECAENTA 25W Solar Panel
- 1 x USB-C to USB-C Cable
- 2 x Climbing Carabiners
- 1 x User Manual

WHAT'S IN THE BOX ?

Solar CHARGER 25w *1

User manual* 1

USB-C to USB-C Cable*1

Carabiners*2



Image: Contents of the ELECAENTA 25W solar panel package, including the folded solar panel, USB-C to USB-C cable, two climbing carabiners, and the user manual.

3. KEY FEATURES

- **Advanced HPBC Solar Cells:** Utilizes the latest HPBC solar cell technology, achieving a high conversion efficiency of 25.4%. This technology ensures superior performance even under low light and high-temperature conditions

compared to traditional monocrystalline silicon solar cells.

UNIQUE HPBC SOLAR CELLS

Superior performance, improved aesthetics,
and higher efficiency

25.4%

Conversion Efficiency



Image: ELECAENTA 25W solar panel with 25.4% conversion efficiency, charging a smartphone in direct sunlight.

KEY FEATURES OF HPBC SOLAR CELLS

High performance, high efficiency,
robust structure, and greater durability

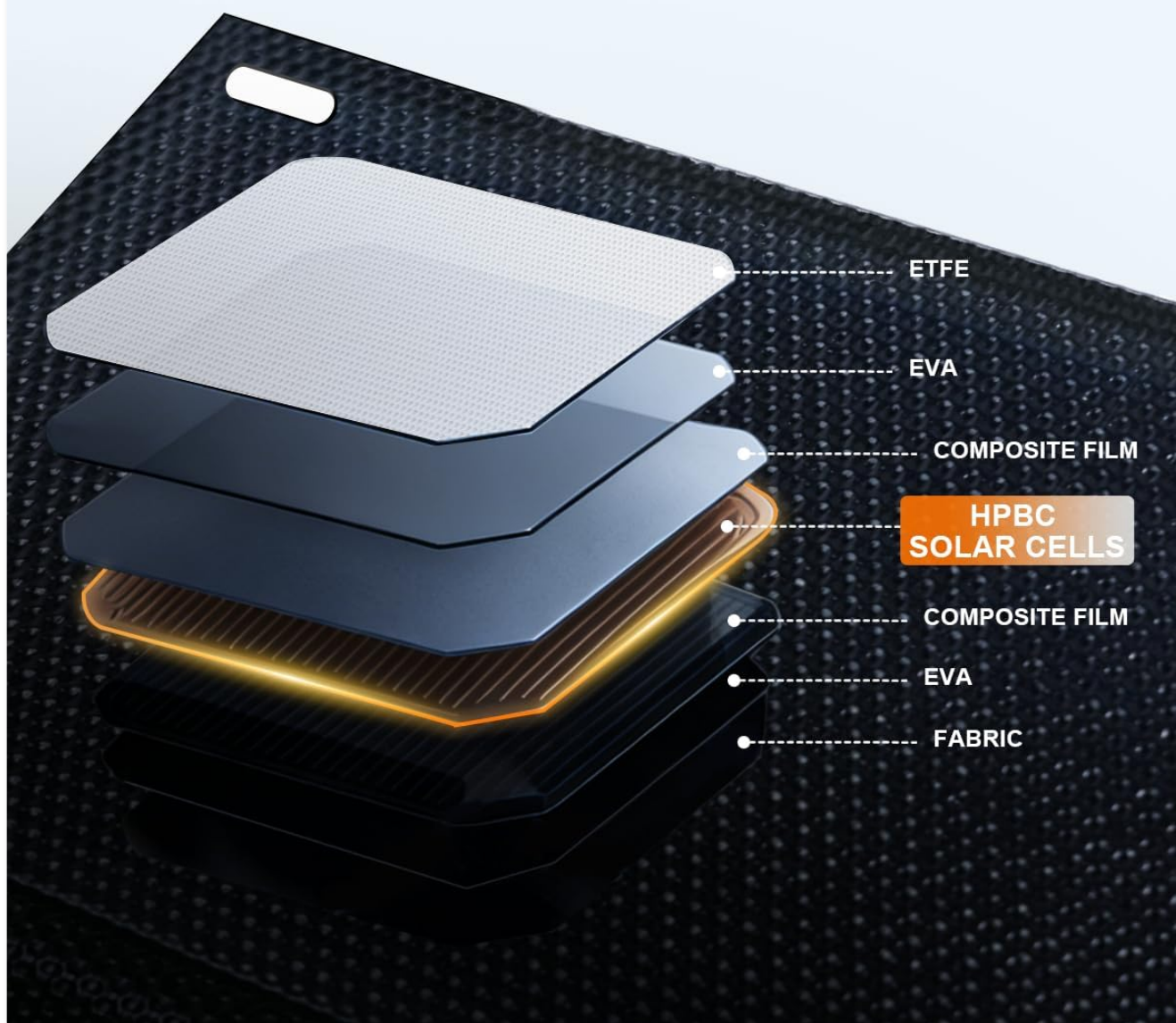


Image: Diagram illustrating the layers of the HPBC solar cell construction, highlighting ETFE, EVA, composite film, and the HPBC solar cells.

- **Dual USB-C & USB-A Output Ports:** Equipped with both USB-C and USB-A output ports, allowing for simultaneous charging of two devices. Compatible with mobile phones, tablets, cameras, GoPros, power banks, and other USB-powered devices.

USB C & USB A OUTPUT PORTS

Supports 2 output ports to charge at the same time



Image: The ELECAENTA 25W solar panel unfolded on a wooden table, demonstrating simultaneous charging of a smartphone using its USB-C and USB-A output ports.

- **Ultra-Light and Portable Design:** Weighing only 0.42 kg (0.9 lbs) and featuring a pocket-sized, foldable design, this solar panel is 50% lighter and smaller than many traditional solar panels. It is highly portable and easy to carry in a backpack for outdoor adventures.

POCKET-SIZE, WEIGHT ONLY 0.9 LBS

Easy to carry or put in a backpack

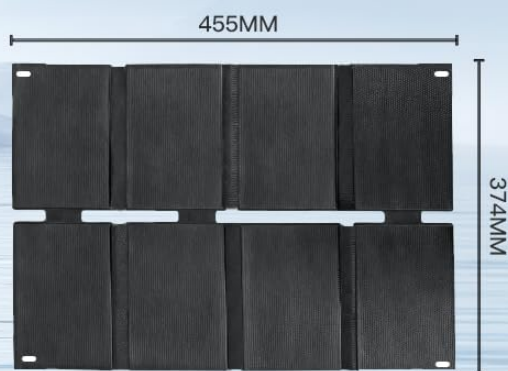


Image: Visual representation of the ELECAENTA 25W solar panel's compact, folded size, showing it fitting into a pocket and being held in a hand, along with its dimensions and weight.

- **IP68 Waterproof and Durable:** The solar panel features a well-made ETFE laminate coating, providing IP68 waterproof, flame retardant, dustproof, and self-cleaning properties. This makes the portable solar charger highly durable for various outdoor conditions. *Note: The output box containing the USB ports is not waterproof.*

IP68 WATERPROOF, MORE DURABLE

Highly waterproof, flame retardant, dustproof and self-cleaning



Image: Close-up view of the ELECAENTA 25W solar panel's ETFE surface, showing water droplets, to illustrate its IP68 waterproof rating.

4. SETUP

1. **Unfold the Solar Panel:** Carefully unfold the ELECAENTA UT-25H solar panel completely to expose all solar cells.
2. **Position for Optimal Sunlight:** Place the unfolded solar panel in an area with direct and unobstructed sunlight. Angle the panel towards the sun to maximize efficiency. The included carabiners can be used to hang or prop the panel for better sun exposure.

3. **Connect Your Device:** Locate the USB-C and USB-A output ports on the control box. Use a compatible USB cable to connect your device (e.g., smartphone, power bank) to either the USB-C or USB-A port.
4. **Verify Connection:** A small LED indicator on the control box will illuminate when the panel is generating power and charging a device.

5. OPERATING INSTRUCTIONS

1. **Maximize Sunlight Exposure:** For the fastest and most efficient charging, ensure the solar panel is positioned directly facing the sun. Any shadows or indirect light will reduce charging performance.
2. **Charging Multiple Devices:** The solar panel supports simultaneous charging through both the USB-C and USB-A ports. Connect your devices to the respective ports. Note that charging two devices simultaneously may distribute the available power, potentially leading to slightly slower charging for each device compared to charging a single device.
3. **Charging Indicator:** The LED light on the control box indicates power generation. If the light is off, reposition the panel or check for obstructions.
4. **Environmental Conditions:** While the solar panel is IP68 waterproof, avoid submerging the control box in water. Optimal operating temperatures are typically between -10°C to 60°C (14°F to 140°F). Extreme temperatures can affect performance.
5. **Automatic Charge Recovery:** The panel features an automatic charge recovery function, meaning it will resume charging automatically once sufficient sunlight returns after a temporary interruption (e.g., passing clouds).

6. MAINTENANCE

- **Cleaning:** Regularly wipe the solar panel surface with a soft, damp cloth to remove dust, dirt, or debris. This ensures maximum light absorption and charging efficiency. Avoid using harsh chemicals or abrasive materials.
- **Storage:** When not in use, fold the solar panel and store it in a cool, dry place away from direct sunlight and extreme temperatures.
- **Inspection:** Periodically inspect the panel and cables for any signs of damage, such as cracks, frayed wires, or loose connections. Do not use the product if it is damaged.

7. TROUBLESHOOTING

- **Device Not Charging:**
 - Ensure the solar panel is in direct, unobstructed sunlight.
 - Check all cable connections to ensure they are secure.
 - Verify that your device is compatible with USB charging and that the cable is functional.
 - The LED indicator on the control box should be lit when charging.
- **Slow Charging Speed:**
 - Charging speed is highly dependent on sunlight intensity. Ensure maximum direct sunlight exposure.
 - Clean the solar panel surface to remove any dirt or dust that might be blocking sunlight.
 - Use high-quality USB cables, as poor-quality cables can reduce charging efficiency.
 - Avoid charging in shaded areas or during cloudy weather.
- **LED Indicator Not Lighting Up:**

- This indicates insufficient sunlight or no power generation. Reposition the panel to a brighter spot.
- Ensure a device is connected and drawing power.

8. SPECIFICATIONS

Feature	Specification
Model Number	UT25-CA2026
Wattage	25 Watts
Conversion Efficiency	25.4%
Weight	420 g (0.9 lbs)
Product Dimensions (Folded)	11 x 18 x 3.8 cm
Output Ports	1 x USB Type A, 1 x USB Type C
Output Current	3 A
Output Voltage	5 Volts
Waterproof Rating	IP68 (Solar Panel only, output box is not waterproof)
Material	ETFE, HPBC Solar Cells
Compatible Devices	Cameras, Cellphones (Apple iPhone, Samsung Galaxy, LG, HTC, Huawei, Xiaomi, etc.), Headphones, Power Banks

9. WARRANTY & SUPPORT

Warranty: The ELECAENTA UT-25H 25W Portable Solar Panel comes with a 12-month warranty from the date of purchase. This warranty covers manufacturing defects and ensures the product functions as described under normal use.

Customer Support: For any questions, technical assistance, or warranty claims, please contact ELECAENTA customer support. Our team is available to help resolve any issues promptly.

You can typically find contact information on the official ELECAENTA website or through the retailer where you purchased the product.

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