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› BERGER Foldable Solar Panel User Manual

BERGER 871701, 176581, 193512

BERGER Foldable Solar Panel User Manual

Model Numbers: 871701, 176581, 193512

PRODUCT OVERVIEW

The Berger foldable solar panel is designed for mobile power supply in camping and outdoor environments. It offers a reliable energy source with power outputs of 100W, 200W, or 300W, suitable for motorhomes, campsites, or garden sheds. Its lightweight and compact design ensures easy transport and quick setup.

This solar panel includes a charge controller with USB ports, enabling direct charging of devices like smartphones using solar energy. The mobile solar controller also offers the option to set the battery type (Gel, AGM, Liquid-Acid) to ensure optimal charging.

Constructed with crystalline cell technology and durable canvas fabric, the Berger foldable solar panel is powerful, long-lasting, and weather-resistant, making it ideal for outdoor use and a sustainable energy solution.



Image showing the BERGER Foldable Solar Panel fully unfolded, displaying its three interconnected solar panels ready for use.

KEY FEATURES

- **Lightweight & Compact:** Ideal for camping and travel, providing reliable power (100W, 200W, or 300W).
- **Integrated Charge Controller:** Comes with a charge controller featuring USB ports for direct charging of smartphones and other devices via solar power.
- **Adjustable Battery Type:** The mobile solar controller allows setting battery types (Gel, AGM, Liquid-Acid) for optimized charging.
- **High Output Performance:** Utilizes crystalline cell technology and robust canvas fabric for high power output, suitable for gardens, balconies, motorhomes, or camping.

PACKAGE CONTENTS

The BERGER Foldable Solar Panel package includes the following items:

- BERGER Foldable Solar Panel
- Solar Charge Controller with USB Port
- 3-meter Connection Cable with Crocodile Clips

DE | Smart Travel Solar 100 Watt
Dieses leichte und kompakte Faltmodul hat auch eine beachtliche Ausgangsleistung von 100 Watt (Wp). Die Zellen sind in stabilem Segeltuch-Gewebe (100 % Polyester mit Polychloridbeschichtung) fest vernäht. Batterietyp einstellbar (Gel, AGM, Flüssig-Säure). Der mobile Solarregler hat ein 3 m Verbindungskabel mit angebrachten Krokodil-Klemmen, damit direkt ins Bordnetz eingespeist werden kann. Lieferumfang: Faltmodul mit kristalliner Zelltechnologie, 3 Meter Anschlusskabel mit Universal-Stecker und eingearbeiteten Ösen sowie Solarregler und Aufsteller.

GB | Smart Travel Solar 100 Watt
This lightweight and compact folding module also has an impressive output power of 100 watts (Wp). The cells are firmly sewn into sturdy canvas fabric (100 % polyester with polychloride coating). Battery type adjustable (gel, AGM, liquid acid). The mobile solar controller has a 3 m connection cable with attached crocodile clips so that it can be fed directly into the on-board power supply. Scope of delivery: Folding module with crystalline cell technology, 3 metre connection cable with universal plug and incorporated eyelets as well as solar regulator and stand.

FR | Smart Travel Solar 100 Watt
Ce module pliable, léger et compact, possède également une puissance de sortie impressionnante de 100 watts (Wp). Les cellules sont solidement cousues dans une toile robuste (100 % polyester avec revêtement en polychlorure). Le type de batterie est réglable (gel, AGM, acide liquide). Le régulateur solaire mobile dispose d'un câble de raccordement de 3 m avec des pinces crocodiles attachées afin de pouvoir être alimenté directement dans le réseau de bord. Contenu de la livraison : Module pliable avec technologie de cellules cristallines, câble de raccordement de 3 mètres avec fiche universelle et œillets incorporés ainsi que régulateur solaire et support.

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Nr. 871701



The BERGER Foldable Solar Panel shown in its compact, folded configuration, highlighting its portability with an integrated carrying handle.



A detailed image of the white solar charge controller, featuring an LCD display, input/output terminals, and two USB ports for device charging.

SETUP INSTRUCTIONS

1. **Unfold the Solar Panel:** Carefully unfold the BERGER Foldable Solar Panel on a flat, stable surface. Ensure the solar cells are facing the sun.



Image showing the BERGER Foldable Solar Panel fully unfolded, displaying its three interconnected solar panels ready for use.

2. **Position for Optimal Sunlight:** Angle the solar panel directly towards the sun to maximize energy absorption. Adjust its position throughout the day as the sun moves.
3. **Connect the Charge Controller:** Locate the pocket on the back of the solar panel where the charge controller is stored. Connect the solar panel's output cable to the "Solar" input terminals on the charge controller.



A close-up image showing the integrated pocket on the back of the solar panel, where the solar charge controller is securely stored.



An angled view of the solar charge controller, providing a clear look at its connection terminals for solar input, battery output, and load, along with the USB charging ports.

4. **Connect to Battery (Optional):** If charging a battery, connect the battery cables to the "Battery" terminals on the charge controller. Ensure correct polarity (positive to positive, negative to negative).
5. **Connect Devices:** For direct device charging, plug your USB devices into the USB ports on the charge controller.

OPERATING INSTRUCTIONS

1. **Monitor Charging Status:** The charge controller features an LCD display that shows real-time charging status, battery voltage, and current. Refer to the display for operational information.
2. **Adjust Battery Type:** The charge controller allows you to select the battery type (Gel, AGM, Liquid-Acid) to ensure optimal charging parameters for your specific battery. Consult the charge controller's separate manual (if provided) for detailed instructions on how to change this setting.
3. **Charging Devices via USB:** Simply connect your USB-powered devices (e.g., smartphones, tablets) to the USB ports on the charge controller. The controller will automatically regulate the output for safe charging.
4. **Load Output (if applicable):** If your charge controller has a "Load" output, you can connect DC loads directly to these terminals. Ensure the load's voltage and current requirements are within the controller's specifications.



This image provides an alternative angled view of the solar charge controller, emphasizing its compact form factor and the various connection points for solar panels, batteries, and USB devices.

MAINTENANCE

- **Cleaning:** Regularly clean the surface of the solar panels with a soft, damp cloth to remove dust, dirt, or debris. Avoid abrasive cleaners or harsh chemicals that could damage the panel surface.
- **Inspection:** Periodically inspect all cables and connections for any signs of wear, damage, or corrosion. Ensure all connections are secure.

- **Storage:** When not in use, fold the solar panel compactly and store it in a dry, cool place away from direct sunlight and extreme temperatures. Protect it from physical damage.

TROUBLESHOOTING

Problem	Possible Cause	Solution
No power output from solar panel.	Insufficient sunlight.	Reposition the panel to face direct sunlight. Ensure no shading.
Devices not charging via USB.	Charge controller not receiving power; faulty USB cable; device not compatible.	Check solar panel connection to controller. Try a different USB cable. Ensure device is compatible with USB charging.
Battery not charging.	Incorrect battery type setting; incorrect polarity; battery deeply discharged.	Verify battery type setting on controller. Check battery cable polarity. Allow time for deeply discharged batteries to recover, or use an external charger if necessary.
Charge controller display is off.	No power input from solar panel or battery.	Check all connections from solar panel and battery to the controller. Ensure sufficient sunlight.

SPECIFICATIONS

Attribute	Value
Manufacturer	Berger
Model Numbers	871701, 176581, 193512
Color	Black
Style/Power Output	100 W (also available in 200 W, 300 W variants)
Material	Crystalline Silicon, Glass, Aluminum
Connector Type	MC4
Included Components	Foldable Solar Panel, Solar Charge Controller with USB Port, Connection Cables
ASIN	B0CYM18JQD
First Available	July 8, 2023

WARRANTY AND SUPPORT

BERGER is committed to customer satisfaction. If you have any questions or encounter issues with your foldable solar panel, please contact BERGER customer service.

For support, you can refer to the manufacturer's information:

Manufacturer: Fritz Berger GmbH
Address: Fritz-Berger-Str. 1, 92318 Neumarkt, GERMANY
Website: www.fritz-berger.de



Image of the product label providing essential information such as manufacturer details (Fritz Berger GmbH), address, website, model number (Nr. 871701), and various compliance and recycling symbols.

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