

Freedom⁺mTM

50W Solar Panel

Portable Folding Solar Panel

Folds to 11.5" x 6.75" x 2.5"
& weighs just 2.9 lbs.



**Battery Power
Solutions**

MODEL #: BPS SP50

10-19

BPS Freedom 50W Solar Panel

TECHNICAL SPECIFICATIONS

- Model #: SP50
- Cell Type: Sunpower Solar Cells
- Rated Wattage: 50W
- Output Voltage: 13.2V (nominal)
- Quick Charge 3.0 USB Output Voltage: 5V | 2A
- Efficiency Rating: 23.5%
- Folded Dimensions: 11.5" x 6.75" x 2.5" (L x H x W)
- Open Dimensions: 27" x 23" x 0.125" (L x H x W)
*without inside pocket flap open
- Weight: 2.9 lbs.
- Warranty: 1 year



**Water-Resistant
Low Profile Panels**



**Great for cell
phones & tablets**

PACKAGE CONTENTS

- Freedom 50W Solar Panel
- Output Cable
- Universal Connector Tips (set of 10)
- Instruction Manual



**Universal Connector
Tips with Output Cable**



**Quick Charge
3.0 USB Port**

INTRODUCTION

The Freedom 50W Solar Panel allows you to safely and efficiently charge your favorite external batteries (like the Freedom CPAP Battery) and other small portable electronics (like cell phones and tablets) that operate from 13.2V or less using the power of the sun.

CHARGE TIMES

Charge times will always vary based on the amount of power the Freedom 50W Solar Panel is able to collect from the sun, which depends upon the amount of direct sunlight that hits the solar cells, as well as the charging requirements of the external battery or portable electronic device.

In optimal charging conditions the Freedom 50W Solar Panel can charge the Freedom CPAP Battery in approximately 4 hours if the battery is completely discharged. Two batteries may be charged simultaneously but please note that charge times are per battery.

Charging a device via the DC OUT port while charging another device in the USB OUT port at the same time will increase charge times for both devices.

OPTIMAL CHARGING CONDITIONS

- direct sunlight with the solar panels angled toward the sun between 30° to 50° from the horizontal (flat)
- move the panels throughout the day to follow the movement of the sun
- no clouds
- no shade covering any of the solar panels
- no hanging branches or other obstructions to direct sunlight
- no dirt or debris on the solar panels

BPS Freedom 50W Solar Panel

CAUTION! IMPORTANT CHARGING & SAFETY NOTES

- DO NOT attempt to charge non-rechargeable external batteries or electronic devices with non-rechargeable batteries.
- DO NOT use the external battery or other electronic device while it is charging via the Freedom 50W Solar Panel.
- DO NOT keep the external battery or electronic device in direct sunlight while charging as exposure to extreme heat could result in a hazardous reaction.

Cover the external battery or electronic device with a cloth or other object, store it within the inside flap pocket of the Freedom 50W Solar Panel or place it in the shade of the angled solar panels to shield it from the direct sunlight.

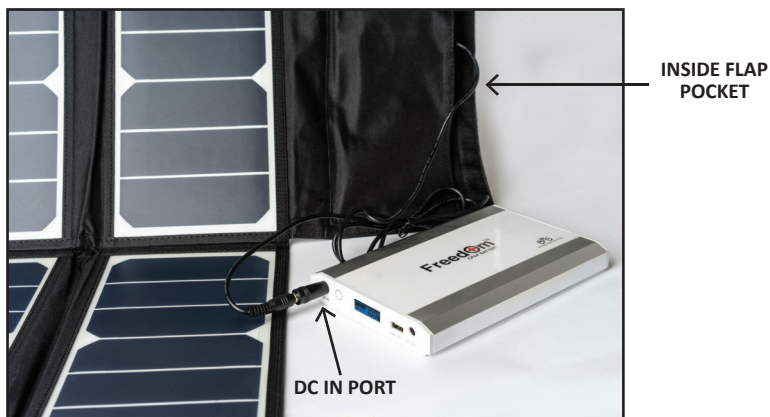
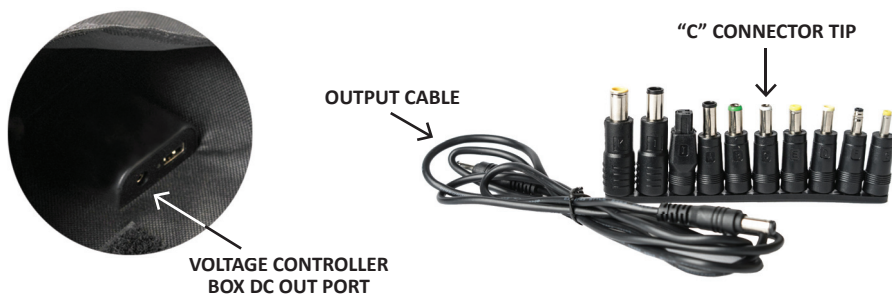
- When charging is complete disconnect the external battery or electronic device from the Freedom 50W Solar Panel and move all items out of the direct sunlight.

CARE INSTRUCTIONS

- Only fold on the established fabric breaks between the solar panels.
- Always keep the solar panels folded to protect them when not in use.
- DO NOT machine wash, machine dry or dry clean.
- DO NOT use soap or solvents to clean the solar panels as they can create a film on the panels which can affect performance.
- If dirt or debris collect on the solar panels use a clean, damp cloth to wipe the panels.
- DO NOT expose the solar panels to extreme heat or direct sunlight for excessive periods of time as this may cause warping of the panels.
- Make sure the solar panels are clean and dry before storage.

FREEDOM CPAP BATTERY CHARGING: SINGLE BATTERY

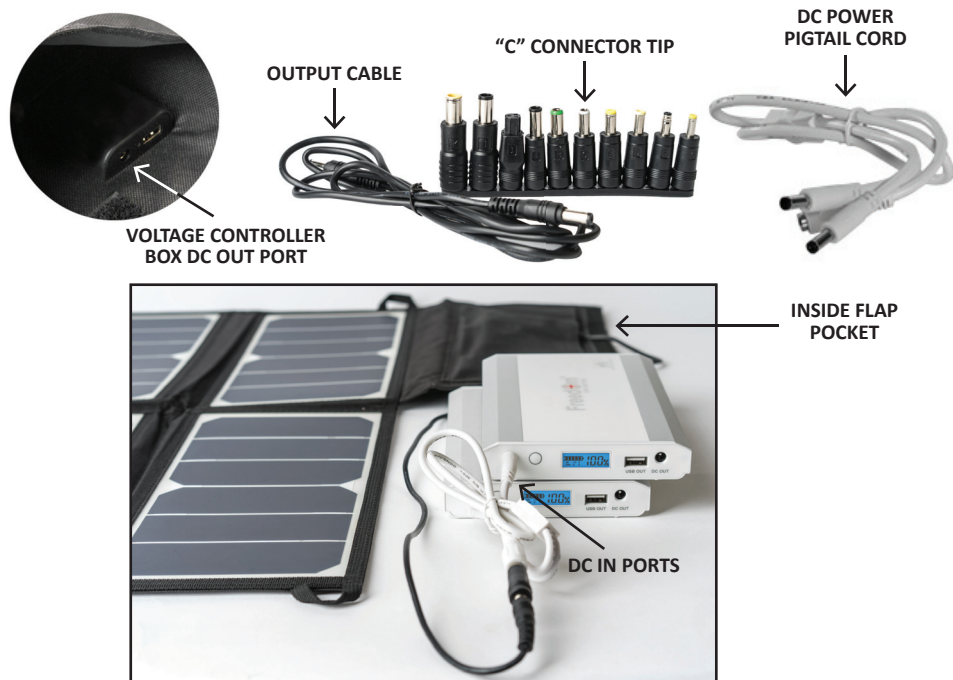
- Unfold the Freedom 50W Solar Panel and angle it toward direct sunlight.
- Open the inside flap pocket of the solar panel and remove the output cable and set of ten (10) universal connector tips.
- Plug either end of the output cable into the DC OUT port of the voltage controller box that is built into the inside flap pocket of the solar panel.
- Plug the other end of output cable into the connector tip labeled “C”. The letter “C” is embossed on the plastic portion of the tip and there is a white ring around the top metal portion of the tip.
- Plug the output cable with the “C” connector tip attached into the DC IN port of the Freedom CPAP Battery to begin the charging process.



BPS Freedom 50W Solar Panel

FREEDOM CPAP BATTERY CHARGING: DUAL BATTERIES

- Unfold the Freedom 50W Solar Panel and angle it toward direct sunlight.
- Open the inside flap pocket of the solar panel and remove the output cable and set of ten (10) universal connector tips.
- Plug either end of the output cable into the DC OUT port of the voltage controller box that is built into the inside flap pocket of the solar panel.
- Plug the other end of output cable into the connector tip labeled “C”. The letter “C” is embossed on the plastic portion of the tip and there is a white ring around the top metal portion of the tip.
- Plug the output cable with the “C” connector tip attached into the DC power pigtail cord that was included with the Freedom CPAP Battery Kit.
- Plug the DC power pigtail cord into the DC IN ports of both batteries to begin the charging process.



PORTABLE ELECTRONIC DEVICE CHARGING

Confirm the electronic device's charging requirements are compatible with the Freedom 50W Solar Panel specifications before use!

- Unfold the Freedom 50W Solar Panel and angle it toward direct sunlight.
- Open the inside flap pocket of the solar panel to reveal the voltage controller box, output cable and ten (10) universal connector tips.
- Choose one of the following options to begin the charging process:
 - Plug the device's USB charging cable into the USB OUT port of the voltage controller box.
 - If one of the provided connector tips fits the charging port of the device plug either end of the output cable into the DC OUT port of the voltage controller box. Plug the other end of the output cable with the connector tip attached into the charging port of the device.

FREQUENTLY ASKED QUESTIONS

Is the Freedom 50W Solar Panel waterproof? The solar panels themselves are weather-resistant and will not be harmed if exposed to light rain or snow; however, the built-in voltage controller box and the output cable are not weather-resistant and must be kept dry.

Does the Freedom 50W Solar Panel hold a charge? No. The solar panels only produce power when exposed to sunlight and that power is not stored and must be transferred to an external battery source.

Can I leave the Freedom 50W Solar Panel outside for continual use? No. The solar panels are not designed for continuous outdoor use. When not in use wipe the panels with a clean, dry cloth and fold for storage.

Why is the Work Indicator light on when nothing is plugged into the Freedom 50W Solar Panel? The Work Indicator light displays when the solar panels are exposed to any amount of UV rays and simply shows the voltage control box is working.



**Battery Power
Solutions**

877-445-5228

www.batterypowersolutions.net