

# PowerFilm<sup>®</sup>

## SOLAR

MADE IN THE USA

## USB+AA Foldable Solar Charger

The PowerFilm USB+AA Solar Charger is a foldable, lightweight, pocket-sized solar charger equipped with a USB charging port and removable, rechargeable AA batteries.

The solar panels are mounted to a lightweight, weather-resistant fabric that easily folds and unfolds for use and storage.

The AA batteries can be used outside of the charger to power AA battery-compatible electronics and in the charger they power the USB charging port. A fully automatic charger, capable of charging all USB 2.0 compliant electronic devices.



### Benefits Include:

- Folds up compactly to fit into a pocket
- Ultra lightweight - weighs less than 5 oz.
- Military grade durability
- Works in low light conditions
- Charges two AA rechargeable batteries
- Includes two NiMH rechargeable batteries
- AA batteries allow USB charging day or night
- Charges batteries in four hours or less

## Tips for best use

- The USB+AA Foldable Solar Charger can be secured through the grommets to a pack, tent or other structures.
- The USB+AA will charge the majority of phones to 30% or 50% depending on the battery size.
- Angling the charger towards the sun will result in the most efficient energy collection.
- Always store in a cool dry environment to ensure years of reliable functionality.
- USB charge rate limited to .5 amps. Devices will take two to four times longer to charge than using manufacturer's supplied charger.

Specifications*	Solar Operating Voltage (V)	Solar Operating Current (Amps)	Weight w/o batteries (pounds)	Folded Dimensions (inch/mm)	Unfolded Dimensions (inch/mm)	USB Port Charging Voltage (V)	USB Port Charging Current (A)
PowerFilm USB+AA Solar Charger	3.6	0.4	0.2	3.3 x 5.7 x 1.5 83.8 x 144.8 x 38.1	24.0 x 5.5 609.6 x 139.7	5.0	0.5

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Electrical Characteristics	
Rated Voltage at Pmax	3.6
Rated Current at Pmax	0.4
Open Circuit Voltage	4.4
Short Circuit Current	0.5
Physical Characteristics	
Folded Dimensions (inches)	3.3 x 5.7 x 1.5
Unfolded Dimensions (inches)	24.0 x 5.5
Weight w/o batteries (pounds)	0.2
Thermal Characteristics	
Temperature Coefficient for Power (%/C)	- 0.200
Temperature Coefficient for Voltage (%/C)	- 0.240
Temperature Coefficient for Voc (%/C)	- 0.300
Temperature Coefficient for Isc (%/C)	0.109