

# PowerFilm<sup>®</sup>

## MADE IN THE USA

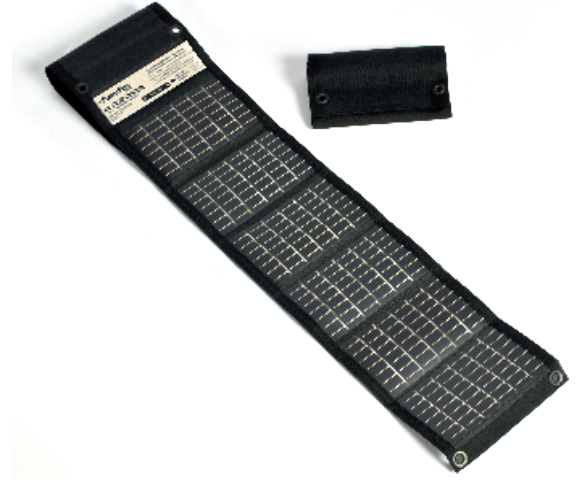
## SOLAR

### 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