



PowerFilm®

Solar Powered Battery Chargers

The World's Most Rollable and Lightweight Solar Technology



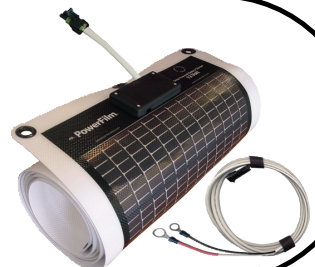
Use 3 Easy Ways

Charge or Direct Power 12V Systems

Marine, RV, Car
Battery Maintenance,
Field Communication
Radios, Heavy
Equipment, Golf
Carts, Military
Vehicles, Lighting,
Security Systems



Your
12V Battery or
System



Optional:
RA-1 Accessory
12V Cigarette Lighter
Adapter

Charge Wireless Electronics

Charge your Laptop,
GPS, Cell Phone, PDA,
Satellite Phone, etc.,
internal batteries



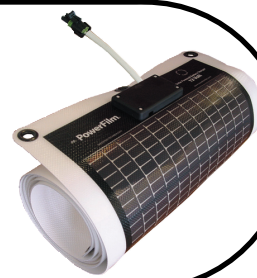
Your
Wireless
Electronics



Your 12V
Cigarette
Lighter
Adapter for the
Wireless
Electronics



RA-2 Accessory
12V Female
Cigarette Lighter
Adapter



Charge Almost All Lithium, NiCad, or NiMH Batteries

Recharge batteries
for GPS, GameBoy®,
Cameras, Camcorders,
Boomboxes, Camping
Lanterns, etc.



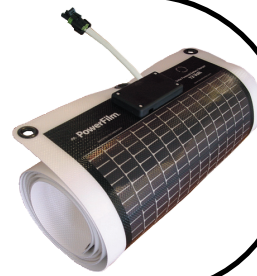
Your
Lithium Ion,
Lithium Polymer,
NiCad, or
NiMH
Batteries



RA-3 Accessory
or
RA-4 Accessory
or
RA-5 Accessory
Battery Charger
Pack



RA-2 Accessory
12V Female
Cigarette Lighter
Adapter



Weekly Application Run Times*

	R15-300	R15-600	R15-1200
12V Bilge Pump (3 Amps)	3.5	7	14
12V GPS (.4 Amps)	25	50	100
Cell Phone Charger (.5 Amps)	21	42	84
AM/FM Radio (.4 Amps)	25	50	100
Laptop (2.5 Amps)	4.2	8.4	16.8
Lighting (.8 Amps)	13	25	51

*Based on 5 hours of full sun per day

PowerFilm® Technology

Because PowerFilm® integrated solar panels (thin film on plastic) are developed and manufactured with a proprietary roll process, by Iowa Thin Film Technologies, they are truly rollable unlike other thin film technologies that are only somewhat flexible. PowerFilm® solar panels are all monolithically integrated which eliminates the need for damage-prone manual connections of individual solar cells. PowerFilm® is made of silicon, a natural resource in abundant supply. Also PowerFilm® performs well in diverse environments, including hot sun, and does not suffer from wasted over-voltage.

Features Professional Marine-Grade Components

- Complete with 15 ft. of wire and o-ring battery connectors
- Durable construction with marine-grade components
- Can roll around a 3-inch diameter
- UV Resistant / Weatherproof
- Junction box with reverse blocking diode
- Tin-coated wire for added durability
- Wrap-around fastener to keep rolled up
- Performs well in diverse conditions, including hot, and cloudy environments
- 3 Year Warranty
- Cadmium free

Accessories:

- RA-1** 12 Volt Cigarette Lighter Adapter
- RA-2** 12 Volt Female Cigarette Lighter Adapter
- RA-3** 12 Volt Trickle Charger Pack for AA and AAA
- RA-4** 12 Volt Standard Battery Charger Pack
- RA-5** 12 Volt Deluxe Universal Battery Charger/ Analyzer/ Conditioner
- RA-6** Daisy Chain Accessory
- RA-7** 15 ft. Extension Cord
- RA-8** 15 ft. Extension Cord with Alligator Clips
- RA-9** Charge Controller

3 Sizes

For Larger Power
Requirements Daisy Chain
Several Together with
**RA-6 Daisy Chain
Accessory**

Specifications*	PowerFilm® R15- 300	PowerFilm® R15- 600	PowerFilm® R15- 1200
Operating Voltage (V)	15.4	15.4	15.4
Operating Current (Amps)	.3	.6	1.2
Weight (lbs./kg)	0.6/.29	1/.46	1.9/.88
Dimensions (inch/mm)	11.5 x 21 292 x 531	11.5 x 38 292 x 972	12 x 73 305 x 1858
Rolled Dimensions (inch/mm)	11.5 x 4 x 3.75 292x101.5x95.25	11.5 x 4.25 x 4.25 292x108x108	12 x 4.25 x 4.5 305x108x114.3

*Operating Voltage and Operating Current at AM1.5. Power performance may vary +/- 10% due to temperature variation, spectral variation, and related effects.

To purchase, contact a PowerFilm® Authorized Reseller



Additional information at: www.iowathinfilm.com

MADE IN USA

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