

## 21W PowerFilm R21 Roll/Flex Solar Panel



Price: CAD \$619.00

**SKU:** PFR21

**Product Categories:** [Rollable Thin Film](#), [Shop](#), [Solar Modules](#)

**Product Tags:** [21 watt](#), [21w](#), [canada](#), [flexible solar panel](#), [flexible solar panels](#), [folding](#), [folding solar](#), [powerfilm](#), [powerfilm solar panels](#), [r-21](#), [r21](#), [rollable](#), [solar](#), [solar panel](#)

**Product Page:** <https://www.modernoutpost.com/product/powerfilm-r21-rollable/>

### Product Summary

The mid-range PowerFilm rollable, flexible solar panel. The rollable series are waterproof and ideal for boats & kayaks, and any other applications needing additional durability.

20.8 Watts, 1.35 Amp (model R-21)

Made in the USA

**Price includes shipping within Canada.**

### Product Description

This is the Powerfilm R21 flexible thin film solar panel. It is waterproof, lightweight, flexible, and will produce more power over the course of any day than any other 21 Watt solar panel on the market. Period. Why? Because Powerfilm is more sensitive than crystalline, it reaches threshold voltage & starts charging your battery pack earlier in the day, and stay charging later in the afternoon. This bigger bell curve of power means that you get more watt-hours of power, with faster deployment, and easier packing than any crystalline solar panel solution.

**Best Battery Matches** [Goal Zero Yeti 300](#) [RELiON RB5](#) [RELiON RB10PVC](#) [RELiON RB12](#) [Bioenno BLF-1203AB](#) [Bioenno BLF-12045W](#) [Bioenno BLF-1206A](#) [Bioenno BLF-1209A](#) [Bioenno BLF-1212A](#)

\*Use a lithium solar charge controller with this module on bare LFP batteries...

[Genasun GV-5-Li-14.2](#) [Powerwerx MPPT-150](#)

PowerFilm rollable, flexible solar panels are among the toughest thin-film portable solar panels available today. They are your best option for boats, kayaks, or any other activity where your solar equipment will be exposed to wet, or especially harsh environments. They are designed for users who need lightweight portable & remote power for laptops, cell phones, satellite phones, GPS units, & other.

PowerFilm are about as thick as an ordinary canvas tarp, and almost as pliable!

PowerFilm solar panels offer the best chemistry for off-season use and higher latitudes due to excellent solar panel sensitivity in low-light & partial shade.

Roll tight into a 4" tube for transport

PowerFilm solar panels are monolithically integrated which means they are manufactured in layers. This eliminates the need for damage-prone manual connections of individual solar cells. PowerFilm flexible solar panels are made using amorphous silicon, and are naturally free from harmful heavy metals like cadmium that are used in other technologies.

Originally designed for military use, PowerFilm panels perform well in diverse conditions such as hot sun, and partial shade. They come ready to connect to batteries and an array of handy accessories using marine-grade plug and play connectors. Rugged corner grommets are provided for tying the panels to boat decks, backpacks, tents, and more. Portable solar power has never been more

convenient!

Choose from 7, 14, 21, or 28 Watt output panels in the rollable line. These outputs are provided at 15.4V, which is great for charging all types of battery packs.

PowerFilm panels come with a female cigarette socket outlet. Choose other/additional connection options shown below to suit your application. A reverse current blocking diode is built-in.

- UV resistant, weather resistant - Reverse blocking diode - Rugged construction - Includes female lighter adapter - Daisy chain multiple powerfilm units together (mix & match any sizes)

Powerfilm R21 Specifications...

- Power Output : 1.35A @15.4v (Approx 21 Watts peak) - Solar Panel Type: Amorphous Silicon

Dimensions:

60.75 x 14.5"

154.3 x 36.8cm

2.25 lbs (1.05 kg)

Included Output Socket: 12V CLA (car style socket)

Accessories:

**Need [PowerFilm cables or connectors?](#)**

Extension, daisy-chain, battery clamp, charge controller cables and more are available.

Check the specific accessories listed on this page, or see "Connectors" under the "Power Category" in the main navigation menu.

Warranty: 3 years

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## Product Attributes

- Dimensions: 1 &times; 1 &times; 1 cm

- Weight: 2.9 kg

## Product Gallery



