

RE Partner Solution

Component Solar Panels



Solution Summary

Using proprietary Amorphous Silicon material, PowerFilm's thin-film PV solutions are an ideal power source for the [RE MCU Family](#), targeting at low power indoor/outdoor IoT and energy harvesting applications. Flexible cells and modules can be printed in many different custom sizes using high throughput roll-to-roll processes.

RE Compatible Indoor Modules

LL200-3.6-75
LL200-4.8-37

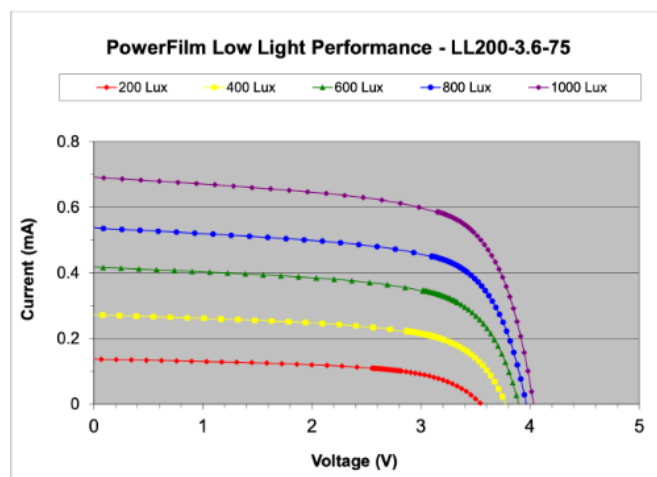
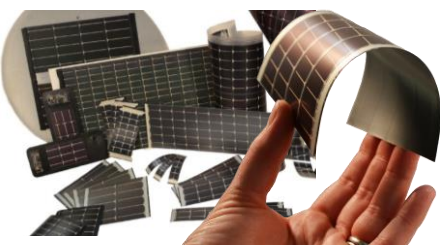
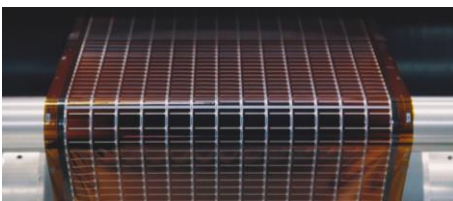
RE Compatible Outdoor Modules

ONP2.4-15x94	MPT3.6-75	MP3-25
MPT2.4-21	SP3-37	MP3-37

Features/Benefits

- Extend or eliminate batteries completely
- Indoor or outdoor light harvesting
- Reduce system maintenance costs
- Available in custom shapes and sizes
- Ultra-thin, flexible, and lightweight
- High temperature and rugged encapsulations available

Diagrams/Graphics



Target Markets and Applications

- | | | |
|----------------------------|-----------------------------|-------------------------|
| • BLE Beacons and Tags | • Wearables | • Smart Locks |
| • Wireless Sensors | • Telematics | • Asset Tracking |
| • ESL and e-paper Displays | • Field and Herd Monitoring | • Low Power Electronics |

www.powerfilmsolar.com/markets/iot

About Us

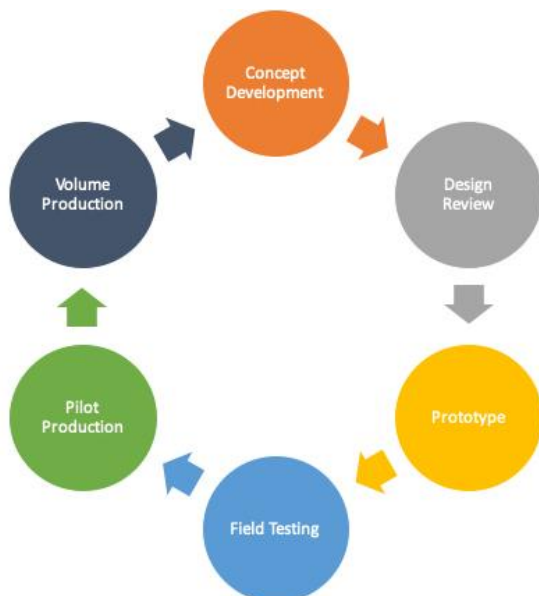
PowerFilm specializes in the design, engineering, manufacturing, and assembly of custom solar solutions. A US-based company with over 200 staff-years of technical expertise, PowerFilm delivers innovative remote, portable power solutions to meet client needs.

Core Competencies

- **Solar expertise:** custom manufacturing of flexible amorphous silicon (a-Si) material providing solutions from μW to kW.
- **Technical expertise:** dedicated PhD-level expertise in EE and ME design, prototyping, and manufacturing across a wide range of laminates, adhesives, substrates, and interconnect options.
- **Business expertise:** 30+ years as a US-based company designing, engineering, manufacturing, distributing, supporting, and improving solar technology and custom solutions.

Markets Served

- **Government:** from our founding based on DOE research, the US government has been a consistent PowerFilm partner and customer.
- **Custom:** Our technology and engineering expertise provide quick understanding and response to your application needs -- needs in power, in supporting electronics, in performance under varying environmental conditions.
- **Consumer:** PowerFilm offers a range of off-the-shelf products to serve remote, portable power needs for hundreds of needs.



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