

## Konarka Power Plastic® 40 Series Product Specifications

Konarka Power Plastic 40 Series panels are ideal for charging batteries for portable electronic devices. Connect in series for increased voltage, and remote power applications.

### Material Characteristics

Power Plastic is a lightweight, thin-film photovoltaic material that is much more versatile in application than traditional solar panels. Konarka's unique technology is based on patented photo-reactive materials made from conductive polymers and organic nano-engineered materials. These materials can be printed or coated onto flexible plastic using an inexpensive, energy-efficient manufacturing process.

Power Plastic reacts with both indoor and outdoor light, greatly expanding its potential applications. By integrating Power Plastic into everyday products, devices can produce their own low-cost source of renewable energy.

### Construction Characteristics

- **Material thickness:**  
0.5mm+/-0.05mm
- **Operating temperature range:**  
-20°C to 65°C [-4°F to 149°F]
- **Weatherproof materials**
- **By-pass/blocking diode optional**
- **User friendly design:**  
Easily integrated
- **Laminate encapsulation:**  
High light transmissive polymer
- **Power terminals:**  
*Option 1:* Barrel connector  
*Option 2:* Dual UL, TUV rated cables and connectors
- **Available with corner grommets**

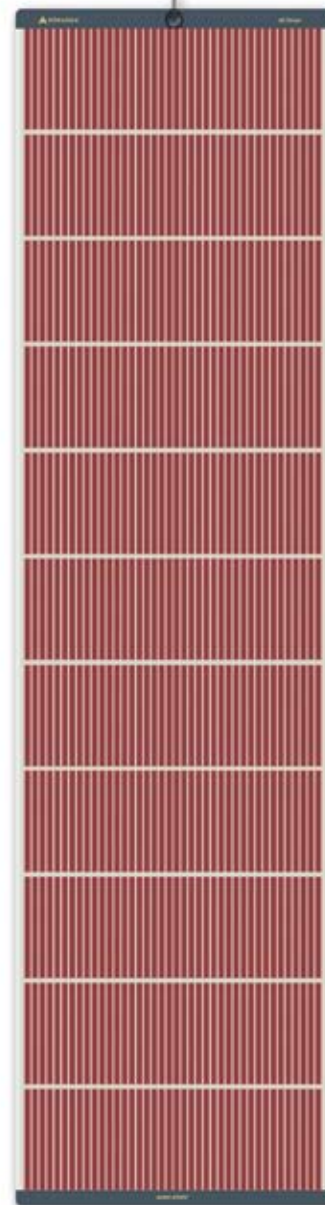
### Panel Dimensions

	length (mm)	width (mm)
Power Plastic 540	1,127	676
Power Plastic 1040	2,193	676
Power Plastic 1140	2,407	676

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Power Plastic 40 Series

676mm



Model 540

Model 1040

Model 1140

### Outdoor Performance

Electrical Data		Units	1 Sun			1/2 Sun		
All 40 Series	Vmpp	V	16.0			16.4		
	Voc	V	22.3			21.5		
Imp / Isc		A	Imp	Isc	Watts	Imp	Isc	Watts
Power Plastic 540			0.79	0.99	12.8	0.39	0.48	6.4
Power Plastic 1040			1.58	1.99	25.7	0.78	0.96	12.8
Power Plastic 1140			1.74	2.19	28.2	0.86	1.06	14.1



### Scalable Energy Independence

The Power Plastic 40 Series is available in 3 standard sizes, and can be built to any length for custom applications.