

Konarka Power Plastic® 620 Solar Charger Product Specifications

The Konarka Power Plastic 620 Solar Charger (7.6W/8V) is ideal for charging batteries for portable electronic devices. Connect in series for increased voltage, and remote power applications.

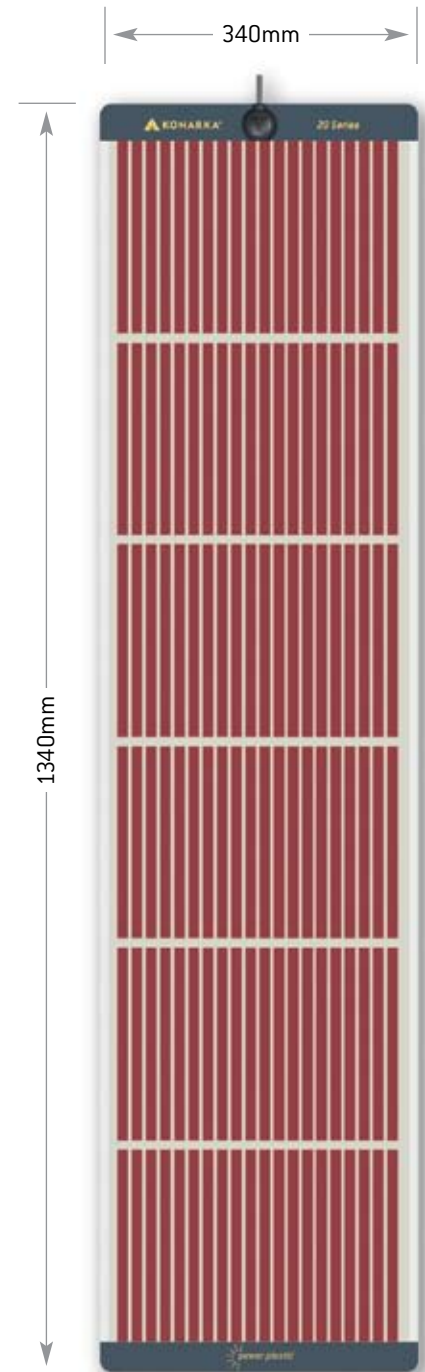
Material Characteristics

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.

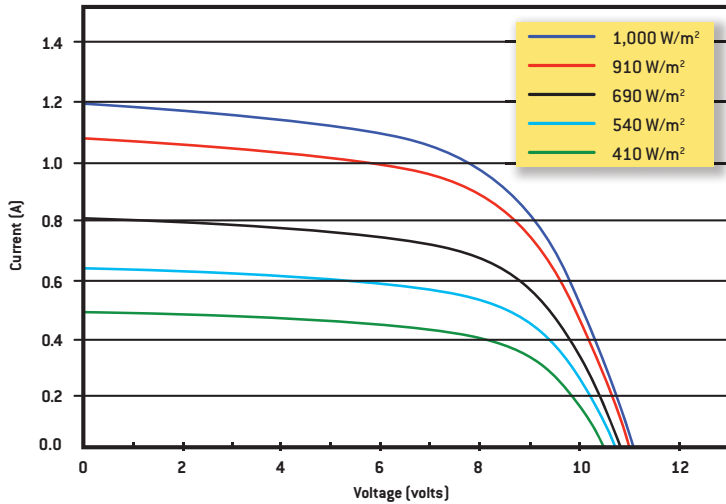
Construction Characteristics

- **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 mountable
- **Laminate encapsulation:**
High light transmissive polymer
- **Power terminals:**
Option 1: Solderable leads
Option 2: Junction box with barrel connector
- **Available with corner grommets**

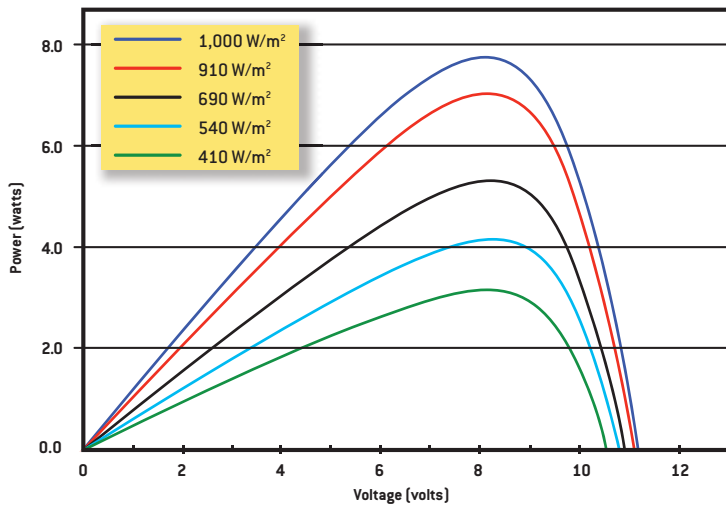


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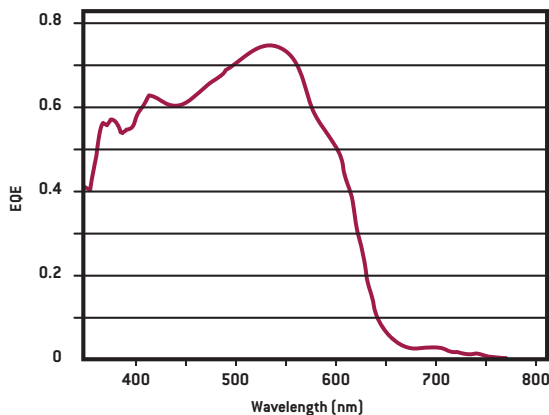
Power Plastic 620 Solar Charger: IV Curves



Power Plastic 620 Solar Charger: Power Curves



Power Plastic EQE



Konarka Power Plastic takes light in and delivers power out. When integrated into products, this direct current (DC) electrical energy can be used immediately, or stored in a battery for later use.



Outdoor Performance

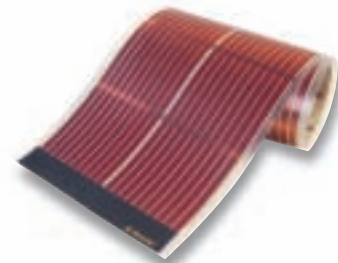
Electrical Data	Units	1 Sun	1/2 Sun
Pmax	W	7.7	3.8
Impp	A	0.95	0.47
Vmpp	V	8.0	8.2
Voc	V	11.1	10.8
Isc	A	1.19	0.58

Temperature Range

Operating Temperature	-20°C to 65°C [-4°F to 149°F]
Storage Temperature	-40°C to 75°C [-40°F to 167°F]

Temperature Coefficients

Pmax	+0.05%/°C (based on air temperature)
Vmpp	-0.27%/°C (based on air temperature)
Voc	-0.21%/°C (based on air temperature)



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R&D Facilities: Lowell, MA, USA; Linz, Austria; Nurnberg, Germany

Learn more at www.konarka.com
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