

Konarka Power Plastic® 320 Solar Charger Product Specifications

The Konarka Power Plastic 320 Solar Charger (3.9W/8V) is ideal for charging batteries for portable electronic devices. Connect in series for increased voltage, and remote power applications.

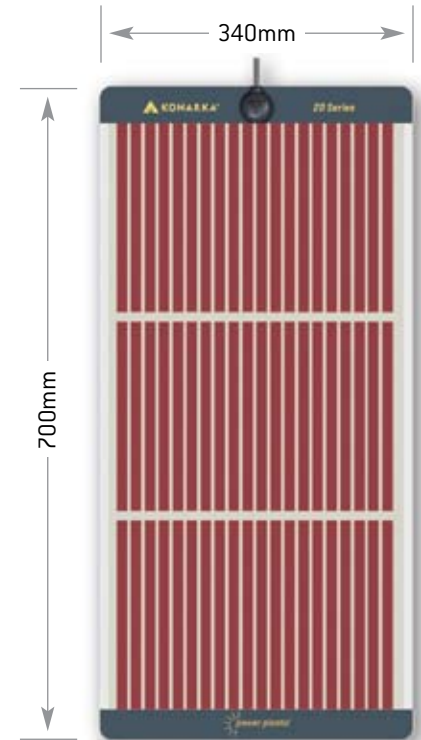
Material Characteristics

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: Konarka junction box with universal connection
- **Available with corner grommets**



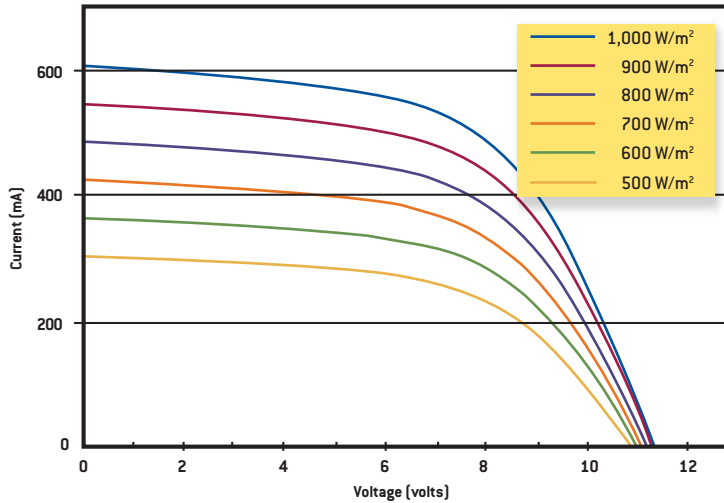
Energy Independence

Power Plastic gives you the freedom to charge your portable devices anywhere.

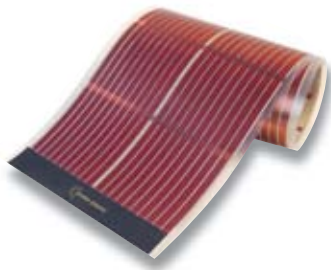
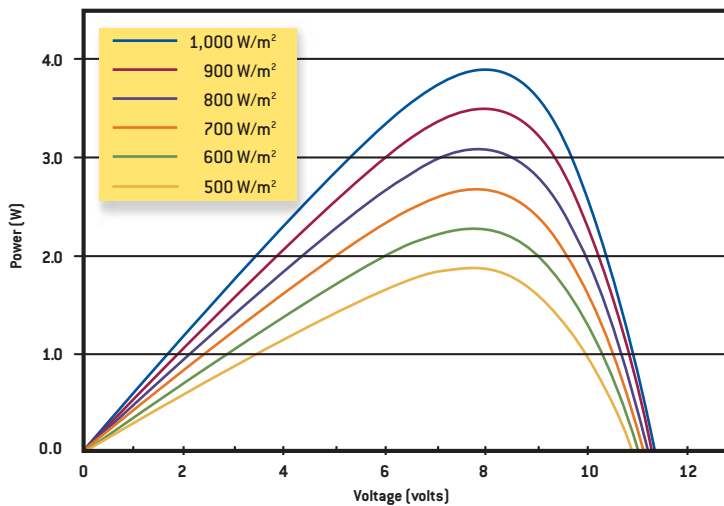


Konarka Power Plastic® 320 Solar Charger

Power Plastic 320 Solar Charger: IV Curves



Power Plastic 320 Solar Charger: Power Curves



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 for later use.



Outdoor Performance

Electrical Data	Units	1 Sun	1/2 Sun
Pmax	W	3.9	1.9
Impp	mA	493	246
Vmpp	V	7.9	7.6
Voc	V	11.3	10.9
Isc	mA	605	303

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)

Headquarters: Lowell, MA, USA
Manufacturing: New Bedford, MA, USA
R&D Facilities: Lowell, MA, USA; Linz, Austria; Nurnberg, Germany

Learn more at www.konarka.com
 or call +1-978-569-1400