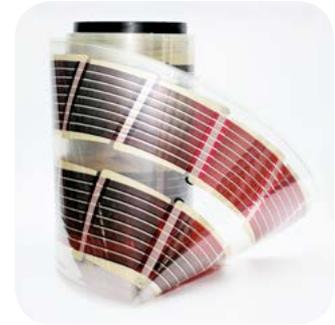


Organic Solar Cells

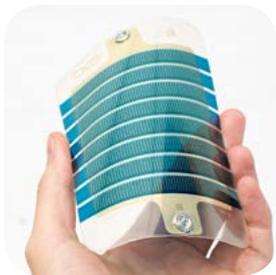
infinityPV organic solar cells (OPV) are a 3rd generation printed solar photovoltaic technology for energy production in small-scale niche applications to large-scale installations such as building integrated photovoltaics (BIPV). The advanced OPV modules do not include toxic or scarce elements and offer a sustainable alternative to traditional solar energy harvesting technologies. infinityPV OPV modules offer unique characteristics such as flexibility, semi-transparency, freeform design, and a variety of colors. The solar modules are entirely prepared on plastic foil using ambient roll-to-roll (R2R) printing and coating methods.



Features:

- Award winning technology
- Flexible & bendable PET plastic substrate
- Lightweight and thin (< 0.5 mm)
- Semi-transparent
- Variety of colours (red, green, blue)
- Green technology
- Highly scalable (no length limit)
- Customizable design
- Optimized materials for efficiency & lifetime & fabrication
- Entirely roll-to-roll (R2R) printed and coated
 - Energy efficient production ($T < 140^{\circ}\text{C}$)
 - Vacuum- and evaporation-free processes
 - No clean-room required
 - Additive manufacturing & patterning
- Fast energy payback time
- Low environmental impact
- No toxic or scarce elements (ITO-free)
- High recyclability
- Highest efficiency for all-printed OPV foils

OPV demonstrator:



- Postcard-sized **technology demonstrator**
- See, feel & test OPV for your future application
- **Teaching tool** for 3rd gen photovoltaic technology
 - 30 - 100x school sets
 - Safe to use - flexible & shatter free
- 16-cell modules (metal-free, carbon contacts)
- 8-cell modules (silver contacts)
- **Efficiency 1.5 - 7% (active area)**
- Full certification on request (IV-data, LBIC map, area)



OPV solar foil:



- **Award winning technology** (infinite HV serial connection)
- Flexible solar foil for unique applications & integration
- **Length up to 100 m, width 152 - 305 mm**
- **Weight 220 - 450 g/m²**
- Efficiency 2 - 4% (active area)
- **1 - 6 Watts per meter**
- Cut, connect & integrate yourself
- Adhesive backside on request
- HV converter electronics on request
- **Full customization** on request



For further information, application notes or customized solar cell designs don't hesitate to contact us.