

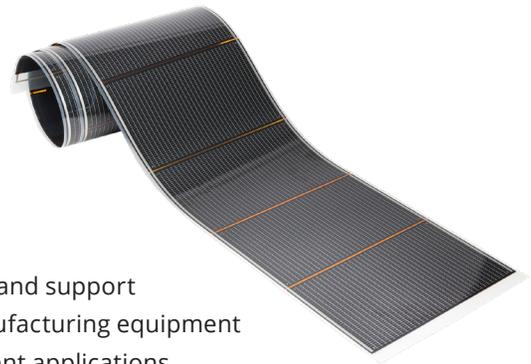
# Ascent SOLAR QUICK FACTS



Ascent Solar Technologies, Inc. is a developer of thin-film photovoltaic modules using flexible substrate materials that are more versatile and rugged than traditional solar panels. Ascent Solar modules were named as one of the top 100 technologies in both 2010 and 2015 by R&D Magazine, and one of TIME Magazine's 50 best inventions for 2011. The technology described above represents the cutting edge of flexible power and can be directly integrated into consumer products and off-grid applications, as well as other aerospace applications.

## CORPORATE

- + Only commercial manufacturer in the world of flexible, thin-film CIGS (copper-indium-gallium-selenide) solar on plastic substrate with monolithic integration
- + Business strategy focuses on high-value specialty PV projects with significant revenue potential in 4 verticals:
  - + Space
  - + Aerospace (including high-altitude airships & drones)
  - + Government & Public Sector
  - + Consumer & OEM
- + Ascent Solar offers a full-range of:
  - + Bare PV modules
  - + Lightweight Superlight modules
  - + Durable Extreme products
- + Custom services include: design, development, manufacturing, and support
- + Over \$300 million (USD) invested in R&D, engineering, and manufacturing equipment
- + Over 80 US and International issued patents and published patent applications



## PROPRIETARY, FLEXIBLE, THIN-FILM CIGS TECHNOLOGY

- + Our proprietary solar technology is durable, portable, flexible, and lightweight
- + Monolithic integration can allow current to flow around any damage for uninterrupted power generation until unit is replaced and our technology also works well from dawn to dusk, even in cloudy conditions
- + Exceptionally rugged products built to the exacting standards required by the U.S. military MIL-STD-810G
- + High voltage/low current bare modules are ideal for space applications such as exploratory satellites
- + Our laminated Superlight CIGS Technology—with a superior areal density of 400 g/m<sup>2</sup> — is ideal for aerospace applications such as high-altitude airships and drones
- + Options for customization include:
  - + Dimensions
  - + Voltage
  - + Current
  - + Regulated/Unregulated
  - + Laminate construction
  - + Non-orthogonal
  - + and more!

### SUCCESS STORY: SILENT FALCON

*Drone manufacturer Silent Falcon extended flight time by up to 50% by seamlessly integrating Ascent Solar's Superlight CIGS Technology directly into the wings of its aircraft.*



DURABLE | PORTABLE | FLEXIBLE | LIGHTWEIGHT

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