

GAME CHANGER

Sunflare Introduces Capture4 solar technology, the first high-precision, cell-by-cell manufacturing process for exceptional performance and durability. The environmentally cleanest method of massproducing solar panels in the world.

MORE ELECTRICITY IN REAL-WORLD CONDITIONS

Better at Dawn and Dusk

Sunflare delivers more energy than c-Si in low light condition.

Better in Poor Weather

Cloudy days, fog, and high humidity, no problem.

Better When the Heat is On

Sunflare modules have a low temperature coefficient that yields more power than traditional silicon. When temperatures climb to extremes in the summer, in the desert, or just at midday, Sunflare shines.

Easy Installation

Fast and low cost installation. Adheres with best quality double sided tape and no roof penetrations.

Shading

Sunflare modules have bypass diodes on each individual cell. This means that when a cell is being shaded, only that individual cell will be inactive. Therefore, the power output of the module will be proportional to the amount of the module being shaded, i.e. if half of the module is shaded, you should expect half of the rated power output.

GUARANTEED RELIABILITY FOR 25 YEARS

90% efficiency output for first 10 years
80% efficiency output 11-25 years



Lightweight
75% lighter than
c-Si panels.



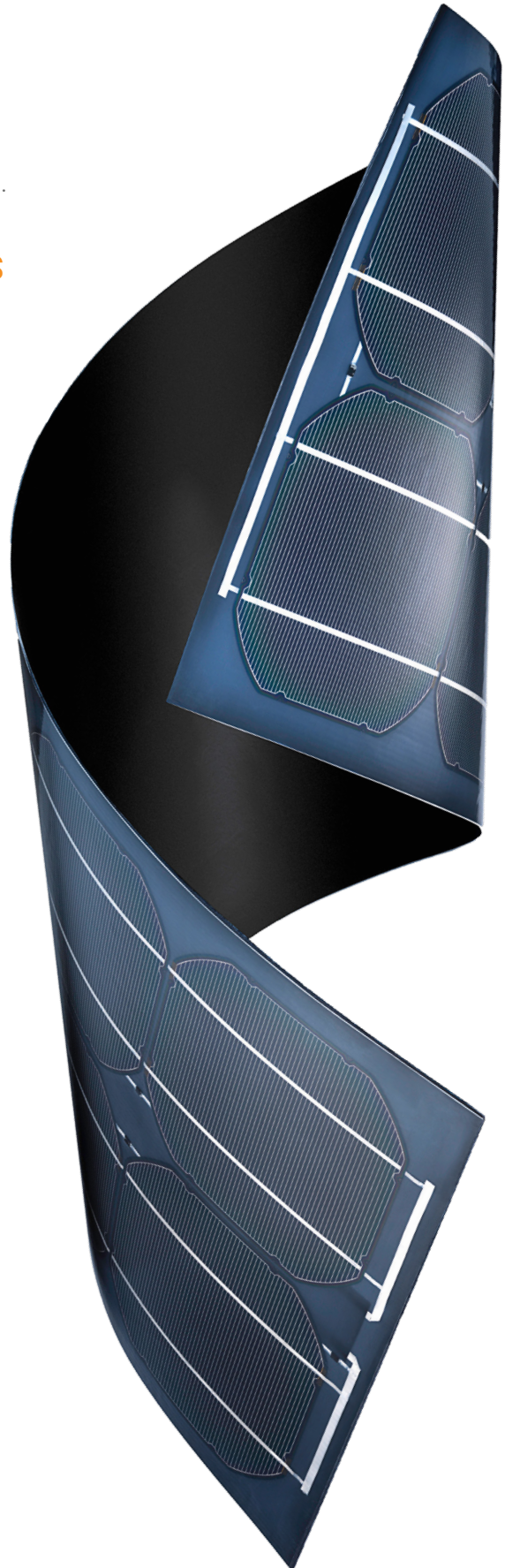
Flexible
The .127mm stainless
steel substrate allows for
generous curvature.



Thin
95% thinner than
c-Si panels.



Durable
Withstands high impact.
Impervious to heat, wind
and cold. Will not crack.



ELECTRICAL DATA

Standard Test Conditions:

Peak Power (+5/-0%)	Pmax	175W
Avg. Panel Efficiency		11.0%
Rated Voltage	Vmpp	28.2V
Rate Current	Imp	6.2A
Open Circuit Voltage	Voc	36.0V
Short Circuit Voltage	Isc	7.4A
Mazimum System Voltage	UL/IEC	1000V
Temperature Coefficient Voltage		-0.35 %/°C
Temperature Coefficient Power		-0.25 %/°C
Temperature Coefficient Current		+0.03%/°C
NOCT		52.1°C
Series Fuse Rating		12A
Grounding		Not Required

*Irradiance of 1000W/mxm, AM 1.5 and cell temperature 25 degree C

MECHANICAL DATA

Solar Cells	60 CIGS SUN ²
Junction Box	IP-65, MC4 compatible
Frame	No frame
Weight	5kg (11 lbs)
Hot Spot Protection	Bypass diode per cell

Module Thickness
1.7 mm

Temperature F (C)
-40° F to + 185° F (-40°C to +85°C)

Max Load

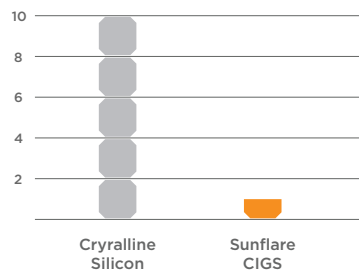
Wind: 50 psf, 2400 Pa front and back.

Impact Resistance

25mm (1 in) diameter hail at
52 mph (23 m/s)

MODULE SPECS

Environmentally Cleanest
1/10 Carbon Footprint of Silicon modules



source: Life cycle assessment of CIGS solar modules and future integration in Zbee
2017-12-18 Sandra Roos, Magdalena Juntikka. Study reviewed and approved by Swedish independent third-party institute Miljögraff AB.

Module Dimension

990±2 mm [38.9±0.1 in]

