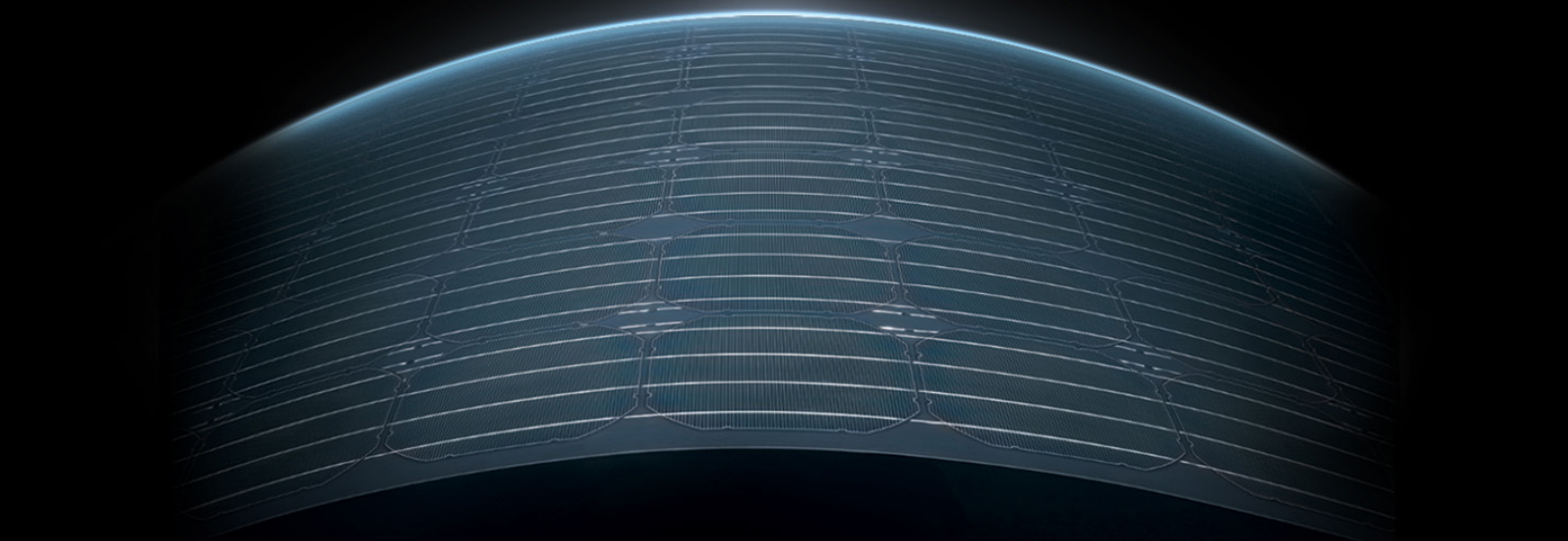




GAME CHANGER

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.

Won't Crack Under Pressure

Traditional cells are made with silicon, which is brittle. Flexing creates cracking in the cell. These cracks reduce the energy output over time. Sunflare has a flexible stainless steel substrate with a mere micron of chemical the combination eliminates micro-cracking.

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.



Thin

95% thinner than c-Si panels.



Flexible

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



Durable

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

ELECTRICAL DATA

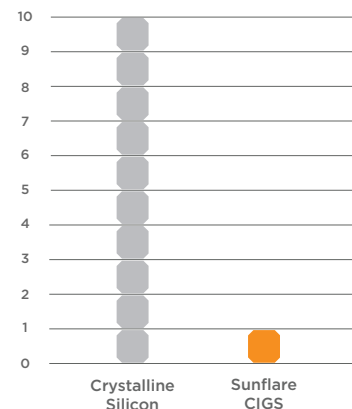
Standard Test Conditions:

Peak Power (+3/-3%)	P _{max}	170W	175W	180W
Avg. Panel Efficiency		11.0%	11.0%	11.0%
Peak Power Voltage	V _{mpp}	27.4V	28.2V	29.0V
Peak Power Current	I _{mpp}	6.2A	6.2A	6.2A
Open Circuit Voltage	V _{oc}	35.0V	36.0V	37.0V
Short Circuit Current	I _{sc}	7.4A	7.4A	7.4A
Maximum System Voltage	UL/IEC	1000V		
Temperature Coefficient Power		-0.35 %/°C		
Temperature Coefficient Voltage		-0.25 %/°C		
Temperature Coefficient Current		+0.03%/°C		
NOCT		52.1°C		
Series Fuse Rating		12A		
Grounding		Not Required		

*Irradiance of 1000W/m², AM 1.5 and cell temperature 25 degree C

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.

MECHANICAL DATA

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

Module Thickness

1.7 mm

Temperature F (C)

-40° F to + 185° F (-40°C to +85°C)

Max Load

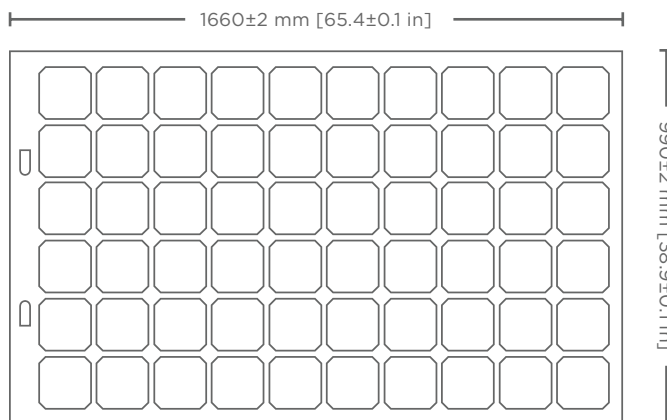
Wind: 50 psf, 2400 Pa front and back.

Impact Resistance

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

MODULE SPECS

Module Dimension



TESTS AND CERTIFICATIONS

Standard Tests	UL 1703 IEC 61215, IEC 61730
Management System Certs	ISO 9001:2015, ISO 14001:2015