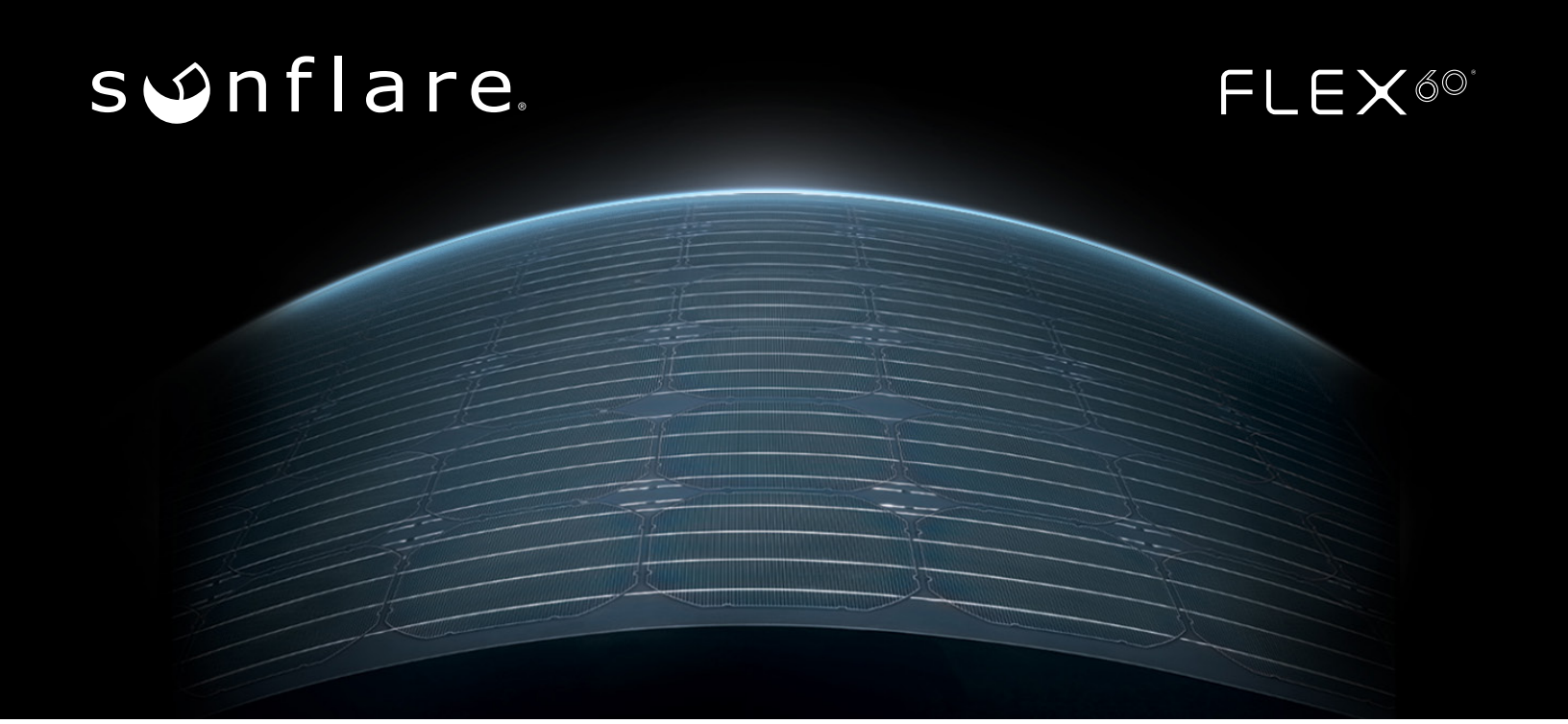
sunflare

FLEX60



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.

DATA SHEET

FLEX60

ELECTRICAL DATA

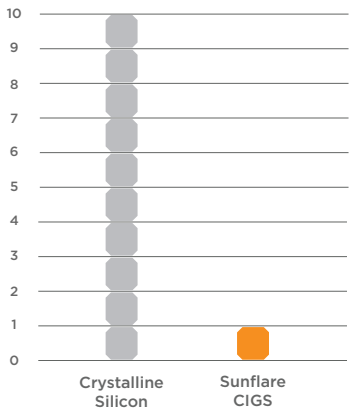
Standard Test Conditions:

Peak Power (+3/-3%)	Pmax	165W	170W	175W	180W	185W
Aperture Efficiency		13.3%	13.7%	14.1%	14.5%	15.0%
Peak Power Voltage	Vmpp	27.5V	27.4V	28.2V	28.7V	28.3V
Peak Power Current	Impp	6.0A	6.2A	6.2A	6.3A	6.5A
Open Circuit Voltage	Voc	35.4V	35.7V	36.0V	36.4V	36.6V
Short Circuit Current	Isc	7.3A	7.4A	7.4A	7.4A	7.5A

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/mxm, 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 Miljögiraff AB.

MECHANICAL DATA

Solar Cells	SUN² 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
Wind Up-Force Load	110lb/sf

Module Thickness
1.7 mm

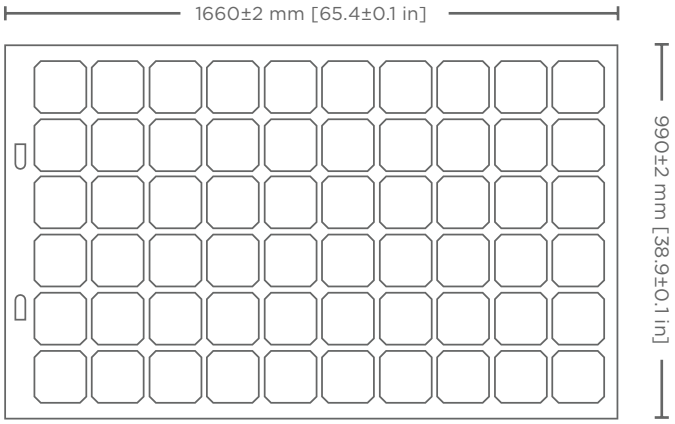
Temperature F (C)
-40° F to + 185° F (-40°C to +85°C)

Impact Resistance

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

MODULE SPECS

Module Dimension



TESTS AND CERTIFICATIONS

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