Photo credit: philsharpracing.com

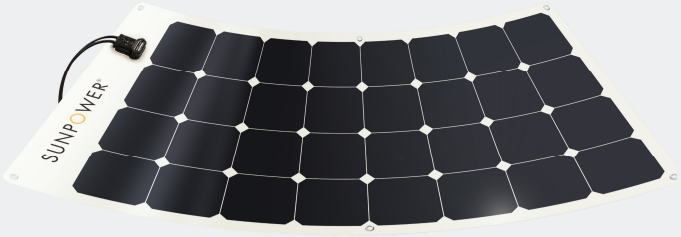

Photo credit: Hans-Peter van Velthoven


Optimel Lab 2 Renault Trucks Laboratory vehicle

SunPower® Flexible Solar Panels | SPR-E-Flex-110 and SPR-E-FLEX-100

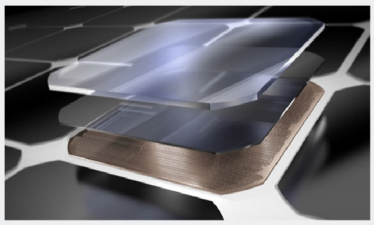
High Power and Flexible

Made with SunPower's highest power back contact cells, SunPower's flexible panels deliver the highest power output and the highest charging capacity in their product class. SunPower's panels are constructed with top-grade, light-weight polymer materials, allowing for easy transport, installation and panel flexing up to 30 degrees.



Designed for Toughness

The SunPower® Maxeon® Solar Cell is the only cell built on a solid copper foundation. Flexible panels made with SunPower cells are resistant to power loss via cracking and corrosion, unlike conventional cells, which are much more likely to lose power when bent or subjected to a moist environment. SunPower flexible panels are the #1 choice for customers due to the combination of high power and cell ruggedness.



Maxeon® Solar Cells: Fundamentally better

Engineered for performance, designed for durability.

Easy and Low Cost Installation

The panel can be installed with adhesives and/or use of stainless steel grommets in the panel. The panels have standard quick-connect cables. An easy-to-follow installation guide is provided with each panel.

Warranty: 5 years limited power warranty of 80% of the minimum specified power rating. Designed in the USA. Assembled in France.

Typical Electrical Data at STC: 25° C, 1000 W/m² and AM 1.5		
Model	SPR-E-Flex-110	SPR-E-Flex-100
Nominal Power (Pnom)	110 W	100 W
Power Tolerance	+6/–3%	+6/–3%
Rated Voltage (Vmpp)	18.8 V	17.1 V
Rated Current (Impp)	5.9 A	5.9 A
Open-circuit voltage (Voc)	22.8 V	21.4 V
Short-curcuit current (Isc)	6.3 A	6.3 A
Power Temp Coeffiecient	–0.29%/° C	–0.35%/° C
Voltage Temp Coefficient	–55.8 mV/° C	–58.9 mV/° C
Current Temp Coefficient	2.9 mA/° C	2.6 mA/° C
Series Fuse Rating	15 A	
Max. System Voltage	SPWR's flex panels are design to be used in battery charging applications, e.g. 12 V or 24 V batteries. NOTE: As per various electrical codes and regulations, solar panels operating at system voltages > 50 V DC must be UL certified for the US and IEC certified for most of the rest of the world. SunPower Flex panels are presently not UL or IEC certified.	

Mechanical Data	
Solar Cells	Prime monocrystalline 25% and 23% efficiency SunPower IBC cells
Junction Box	TE 1-21-2152049-1, 1 bypass diode
Connectors	MC4 compatible
Cables	0.16 in² (4 mm²), 12 AWG, 17.7 in (450 mm) long
Grommets	6 grommets, 0.33 in (8.5 mm) inner diameter
Charge Controller	None provided
Weight	4.84 lbs (2.2 kg)
Panel Dimensions	45.3 x 21.9 x 0.13 in (1150 x 555 x 3.2 mm)

Packaging	
Box Weight (1 panel per box)	7.5 lbs (3.4 kg)
Box Dimensions	52.4 x 23.2 x 1.38 in (1330 x 590 x 35 mm)
Gross Weight	264 lbs (120 kg)
Crate Dimensions	56.7 x 44.9 x 33.5 in (1440 x 1140 x 850 mm)
Number of Panels per Crate	32

Please read the safety and installation guide. Visit www.sunpower.com/flexible-solar-panels.

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