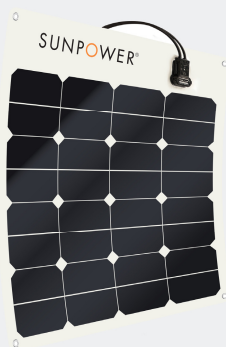


SunPower® Flexible Solar Panels | SPR-E-Flex-50

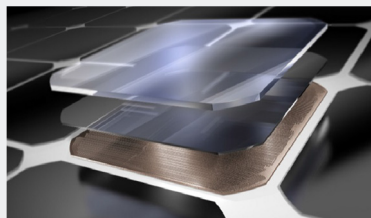
High Power and Flexible

Made with SunPower's highest power Gen II 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 Philippines.

Typical Electrical Data	
at STC: 25° C, 1000 W/m ² and AM 1.5	
Model	SPR-E-Flex-50
Nominal Power (P _{nom})	50 W
Power Tolerance	+/-5%
Rated Voltage (V _{mpp})	17.7 V
Rated Current (I _{mpp})	2.8 A
Open-circuit voltage (V _{oc})	21.5 V
Short-circuit current (I _{sc})	3.1 A
Power Temp Coefficient	-0.35%/° C
Voltage Temp Coefficient	-58.9 mV/° C
Current Temp Coefficient	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 23% efficiency SunPower IBC cells
Junction Box	TE 1-21-2152049-1, 1 by-pass diode
Connectors	MC4 compatible
Cables	0.16 in ² (4 mm ²) 12 AWG, 450 mm (17.7 in) long
Grommets	4 grommets, 0.33 in (8.5 mm) inner diameter
Charge Controller	None provided
Weight	3.3 bs (1.5 kg)
Panel Dimensions	29.7 x 21.9 x 0.13 in (755x 557 x 3.2 mm)

Individual Packaging	
Box Weight (1 panel per box)	6.6 lbs (3 kg)
Box Dimensions	29.9 x 22.4 x 1.97 in (760 x 570 x 50 mm)
Gross Weight (50 panels per crate)	358.1 lbs (162.8 kg)
Crate Dimensions	44.9 x 31.5 x 52.4 in (1140 x 800 x 1330 mm)

Bulk Packaging	
Box Weight (1 panel per box)	3.85 lbs (1.75 kg)
Box Dimensions	29.9 x 22.4 x 0.59 in (760 x 570 x 15 mm)
Gross Weight (100 panels per crate)	413.1 lbs (187.8 kg)
Crate Dimensions	44.9 x 31.5 x 52.4 in (1140 x 800 x 1330 mm)

Please read the safety and installation guide. Visit www.sunpower.com/flexible-solar-panels. Document # 525321 Rev E / LTR_US