SunPower® E-Series Commercial Solar Panels | E20-435-COM

Helix™ Roof Compatible Modules

Factory-installed clips enable tool-free panel installation, decreasing installation time and minimizing business disruption.[1]

More than 20% Efficiency

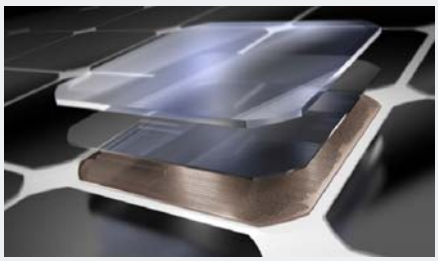
Captures more sunlight and generates more power than conventional panels.

High Performance

Delivers excellent performance in real-world conditions, such as high temperatures, clouds and low light.[2]

Commercial Grade

Optimized to maximize returns and energy production, the E-Series panel is a bankable solution for commercial solar applications.



Maxeon® Solar Cells: Fundamentally better
Engineered for performance, designed for reliability.

Engineered for Peace of Mind

Designed to deliver consistent, trouble-free energy over a very long lifetime.[3]

Designed for Reliability

The SunPower Maxeon solar cell is the only cell built on a solid metal foundation. Virtually impervious to the corrosion and cracking that degrade conventional panels.

#1 Rank in Fraunhofer durability test.[4]

High Performance & Excellent Reliability

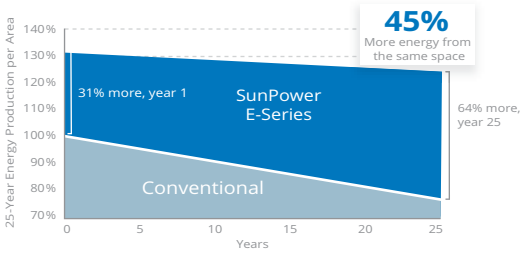
SPR-E20-435-COM

E20 SERIES

High Efficiency

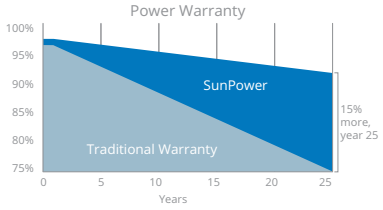
Generate more energy per square foot

More energy to power your system. E-Series residential systems convert more sunlight to electricity by producing 31% more energy in the first year. This advantage increases over time, producing 45% more energy over the first 25 years to meet your needs.[2]

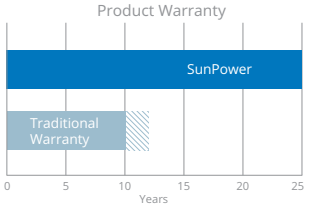


Best Reliability, Best Warranty

A better warranty starts with a better product. Proven performance backs up our industry-best coverage, including out warranted 0.25% per year degradation rate.[5]



More guaranteed power: 98% for first year, −0.25%/yr. to year 25



Combined Power and Product defect 25-year coverage

SUNPOWER®

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Electrical Data	
	SPR-E20-435-COM
Nominal Power (Pnom)[6]	435 W
Power Tolerance	+5/−3%
Avg. Panel Efficiency[7]	20.3%
Rated Voltage (Vmpp)	72.9 V
Rated Current (Impp)	5.97 A
Open-Circuit Voltage (Voc)	85.6 V
Short-Circuit Current (Isc)	6.43 A
Max. System Voltage	1500 V UL & 1000 V IEC
Maximum Series Fuse	15 A
Power Temp Coef.	−0.35% / ° C
Voltage Temp Coef.	−235.5 mV / ° C
Current Temp Coef.	2.6 mA / ° C

Operating Condition And Mechanical Data	
Temperature	−40° F to +185° F (−40° C to +85° C)
Impact Resistance	1 inch (25 mm) diameter hail at 52 mph (23 m/s)
Appearance	Class B
Solar Cells	128 Monocrystalline Maxeon Gen II
Tempered Glass	High-transmission tempered anti-reflective
Junction Box	IP-65, MC4 compatible
Weight	56 lbs (25.4 kg)
Max. Load	Wind: 50 psf, 2400 Pa front & back Snow: 112 psf, 5400 Pa front
Frame	Class 2 silver anodized; stacking pins

Tests And Certifications	
Standard Tests[8]	UL1703 (Type 2 Fire Rating), IEC 61215, IEC 61730
Management System Certs	ISO 9001:2015, ISO 14001:2015
EHS Compliance	RoHS, OHSAS 18001:2007, lead free, REACH SVHC-163, PV Cycle
Ammonia Test	IEC 62716
Desert Test	10.1109/PVSC.2013.6744437
Salt Spray Test	IEC 61701 (maximum severity)
PID Test	1000V: IEC62804, PVEL 600hr duration
Available Listings	UL, TUV, MCS, CSA, FSEC

REFERENCES:

1 Helix-compatible modules may not be compatible with other racking systems.

2 SunPower 327W compared to a Conventional Panel on same sized arrays (260W, 16% efficient, approx. 1.6 m2), 3% more energy per watt (based on 3pty module characterization and PVSim), 0.75%/yr slower degradation (Campeau, Z. et al. "SunPower Module Degradation Rate," SunPower white paper, 2013).

3 "SunPower Module 40-Year Useful Life" SunPower white paper, May 2015. Useful life is 99 out of 100 panels operating at more than 70% of rated power.

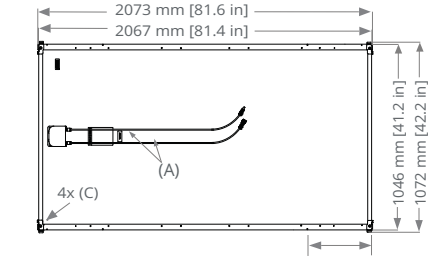
4 X-Series same as E-Series, 5 of top 8 panel manufacturers tested in 2013 report, 3 additional panels in 2014. Ferrara, C., et al. "Fraunhofer PV Durability Initiative for Solar Modules: Part 2". Photovoltaics International, 2014.

5 See us.sunpower.com/commercial-solar/products/panel-warranty for more details.

6 Standard Test Conditions (1000 W/m² irradiance, AM 1.5, 25° C). NREL calibration Standard: SOMS current, LACCS FF and Voltage.

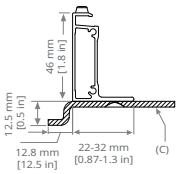
7 Based on average of measured power values during production.

8 Type 2 fire rating per UL1703:2013, Class C fire rating per UL1703:2002.



(A) Cable Length: 1230 mm +/-10 mm
(B) Stacking Pins
(C) Optional Helix-compatible Clips

FRAME PROFILE



Please read the safety and installation guide.

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