

E-Series | E20 - 327 Residential Solar Panels

20.4% Efficiency

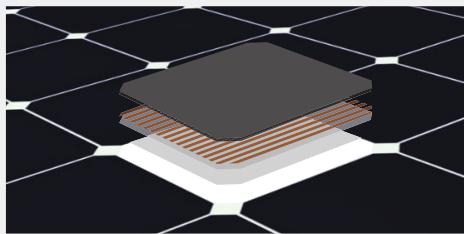
Ideal for roofs where space is at a premium or where future expansion might be needed.

High Performance

Delivers excellent performance in real world conditions, such as high temperatures, clouds and low light.^{1,2,3}

Proven Value

Designed for residential rooftops, E-Series panels deliver the features, value and performance for any home.



Maxon® 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.^{4,5}

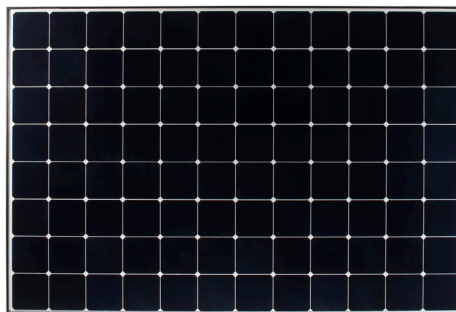
Designed for Reliability

The SunPower Maxon Solar Cell is the only cell built on a solid copper foundation. Virtually impervious to the corrosion and cracking that degrade Conventional Panels.^{4,5}

#1 Ranked in Fraunhofer durability test.¹⁰

100% power maintained in Atlas 25+ comprehensive PVDI Durability test.¹¹

High Performance & Excellent Durability



E20 - 327 PANEL

High Efficiency⁶

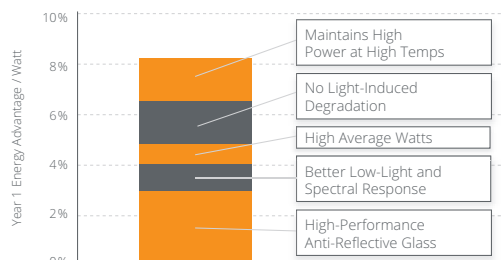
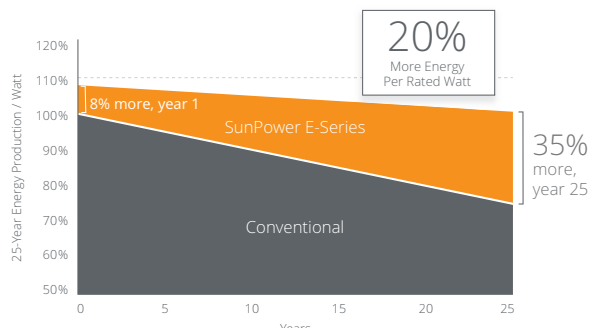
Generate more energy per square foot

E-Series residential panels convert more sunlight to electricity producing 36% more power per panel,¹ and 60% more energy per square foot over 25 years.^{3,4}

High Energy Production⁷

Produce more energy per rated watt

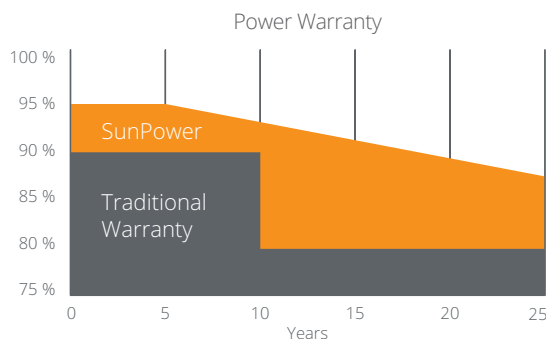
High year one performance delivers 7-10% more energy per rated watt.³ This advantage increases over time, producing 20% more energy over the first 25 years to meet your needs.⁴



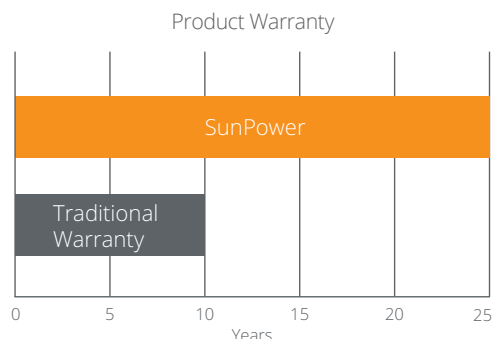
Awarded to
SunPower E-Series.
X-Series delivers even
more energy.⁷

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Sunpower Offers The Best Combined Power And Product Warranty



More guaranteed power: 95% for first 5 years, -0.4%/yr. to year 25.⁸



Combined Power and Product defect 25 year coverage that includes panel replacement costs.⁹

Electrical Data

	E20-327
Nominal Power ¹² (P _{nom})	327 W
Power Tolerance	+5 /- 0%
Avg. Panel Efficiency ¹³	20.4%
Rated Voltage (V _{mpp})	54.7 V
Rated Current (I _{mpp})	5.98 A
Open-Circuit Voltage (V _{oc})	64.9 V
Short-Circuit Current (I _{sc})	6.46 A
Max. System Voltage	600 V UL ; 1000 V IEC
Maximum Series Fuse	20 A
Power Temp Coef. (P _{mpp})	-0.38% / °C
Voltage Temp Coef. (V _{oc})	-176.6 mV / °C
Current Temp Coef. (I _{sc})	3.5 mA / °C

Operating Condition and Mechanical Data

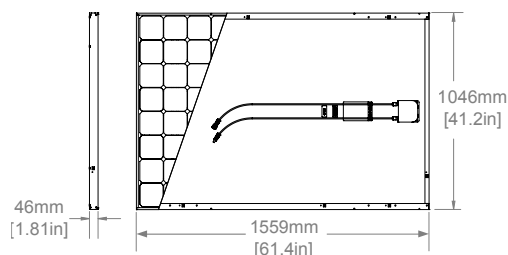
Temperature	-40°F to +185°F (-40°C to +85°C)
Max load	Wind: 50 psf, 2400 Pa, 245 kg/m² front & back Snow: 112 psf, 5400 Pa, 550 kg/m² front
Impact resistance	1 inch (25mm) diameter hail at 52 mph (23 m/s).
Appearance	Class A+
Solar Cells	96 Monocrystalline Maxeon Gen III Cells
Tempered Glass	High transmission tempered Anti-Reflective
Junction Box	IP-65 Rated
Connectors	MC4 Compatible
Frame	Class 1 black anodized, highest AAMA Rating
Weight	41 lbs (18.6 kg)

REFERENCES:

- All comparisons are SPR-X21-345 vs. a representative conventional panel: 240W, approx. 1.6 m², 15% efficiency.
- PVEvolution Labs "SunPower Shading Study," Feb 2013.
- Typically 7-9% more energy per watt, BEW/DNV Engineering "SunPower Yield Report," Jan 2013, with CFV Solar Test Lab Report #12063, Jan 2013 temp. coef. calculation.
- SunPower 0.25%/yr degradation vs. 1.0%/yr conv. panel. Campeau, Z. et al. "SunPower Module Degradation Rate," SunPower white paper, Feb 2013; Jordan, Dirk "SunPower Test Report," NREL, Oct 2012.
- "SunPower Module 40-Year Useful Life" SunPower white paper, Feb 2013. Useful life is 99 out of 100 panels operating at more than 70% of rated power.
- Out of all 2600 panels listed in Photon International, Feb 2012
- 8% more energy than the average of the top 10 panel companies tested in 2012 (151 panels, 102 companies), Photon Int'l, Mar 2013.
- Compared with the top 15 manufacturers. SunPower Warranty Review, Feb 2013.
- Some exclusions apply. See warranty for details.
- 5 of top 8 panel manufacturers were tested by Fraunhofer ISE, "PV Module Durability Initiative Public Report," Feb 2013
- Compared with the non-stress-tested control panel. Atlas 25+ Durability test report, Feb 2013.
- Standard Test Conditions (1000 W/m² irradiance, AM 1.5, 25° C).
- Based on average of measured power values during production.

Tests and Certifications

Standard tests	UL 1703, IEC 61215, IEC 61730
Quality tests	ISO 9001:2008, ISO 14001:2004
EHS Compliance	RoHS, OHSAS 18001:2007, lead free
Ammonia test	IEC 62716
Salt Spray test	IEC 61701 (passed maximum severity)
PID test	Potential-Induced Degradation free: 1000V ¹⁰
Available listings	CEC, JET, KEMCO, MCS, FSEC, CSA, UL, TUV



See <http://www.sunpowercorp.com/facts> for more reference information.

For further details, see extended datasheet: www.sunpowercorp.com/datasheets Read safety and installation instructions before using this product.

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