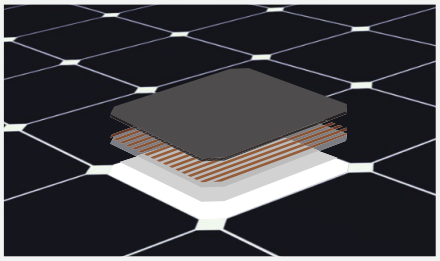
SUNPOWER®

MORE ENERGY. FOR LIFE.™

E-SERIES 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.



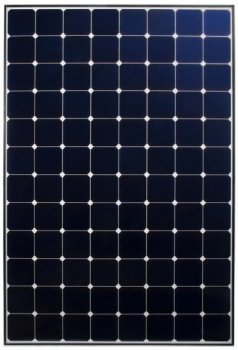
Maxeon® Solar Cells: Fundamentally better.
Engineered for performance, designed for durability.

Engineered for peace of mind
Designed to deliver consistent, trouble-free energy over a very long lifetime.[4,5]

Designed for durability
The SunPower Maxeon 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

E20 SERIES

HIGH EFFICIENCY[6]

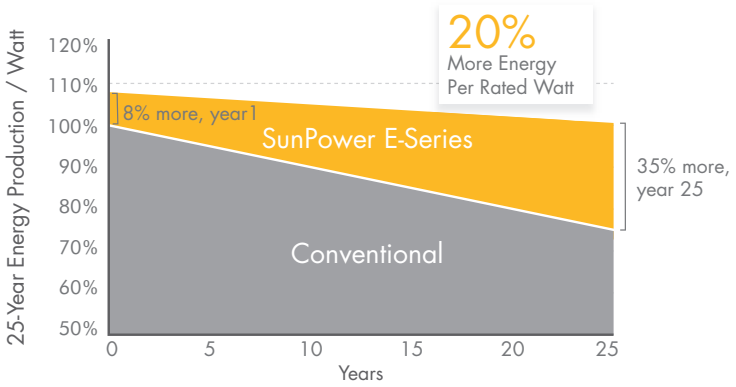
Generate more energy per square foot

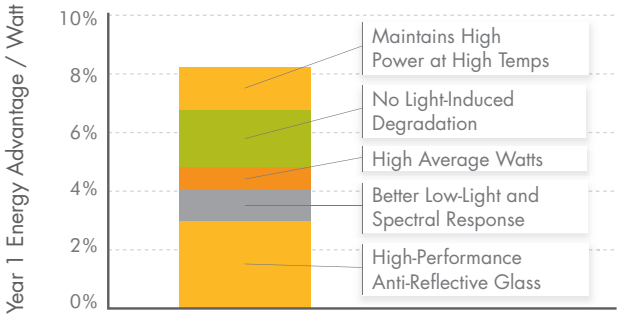
E-Series residential panels convert more sunlight to electricity producing 36% more power per panel,[1] and 60% more energy per square foot over 25 years.[3,4]

HIGH ENERGY PRODUCTION[7]

Produce more energy per rated watt

High year one performance delivers 7-9% 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]





MOST ENERGY PER WATT
1
PHOTON
2012 FIELD TEST

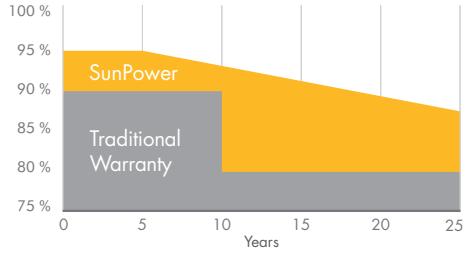
SUNPOWER®

MORE ENERGY. FOR LIFE.™

E-SERIES SOLAR PANELS

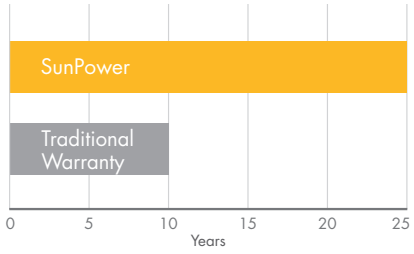
SUNPOWER OFFERS THE BEST COMBINED POWER AND PRODUCT WARRANTY

POWER WARRANTY



More guaranteed power: 95% for first 5 years, -0.4%/yr. to year 25.[8]

PRODUCT WARRANTY

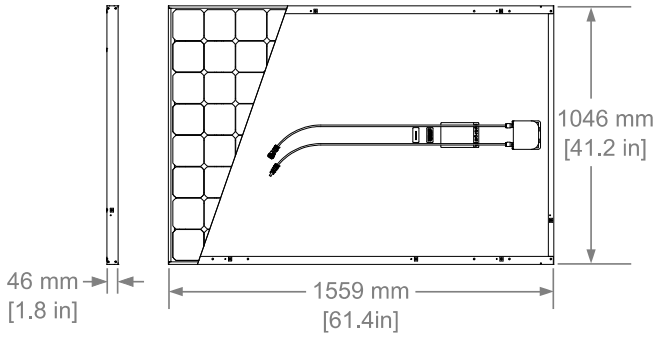


Combined Power and Product defect 25 year coverage that includes panel replacement costs. [9]

ELECTRICAL DATA		
	E20-327	**E19-320**
Nominal Power[12] (Pnom)	327 W	320 W
Power Tolerance	+5/–0%	+5/–0%
Avg. Panel Efficiency[13]	20.4%	19.8%
Rated Voltage (Vmpp)	54.7 V	54.7 V
Rated Current (Impp)	5.98 A	5.86 A
Open-Circuit Voltage (Voc)	64.9 V	64.8 V
Short-Circuit Current (Isc)	6.46 A	6.24 A
Max. System Voltage	600 V UL & 1000 V IEC	
Maximum Series Fuse	15 A	
Power Temp Coef.	–0.38% / °C	
Voltage Temp Coef.	–176.6 mV / °C	
Current Temp Coef.	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 II
Tempered Glass	High transmission tempered Anti-Reflective
Junction Box	IP-65 Rated
Connectors	MC4 Compatible Connectors
Frame	Class 1 black anodized (highest AAMA rating)
Weight	41 lbs (18.6 kg)

TESTS AND CERTIFICATIONS	
Standard tests	UL1703 (Type 2 Fire Rating), 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	UL, CEC, CSA, TUV, JET, KEMCO, MCS, FSEC



REFERENCES:

1 All comparisons are SPR-E20-327 vs. a representative conventional panel: 250W, approx. 1.6 m², 15.3% efficiency.

2 PVEvolution Labs "SunPower Shading Study," Feb 2013.

3 Typically 7-9% more energy per watt, BEW/DNV Engineering "SunPower Yield Report," Jan 2013.

4 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.

5 "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.

6 Second highest, after SunPower X-Series, of over 3,200 silicon solar panels, Photon Module Survey, Feb 2014.

7 8% more energy than the average of the top 10 panel companies tested in 2012 (151 panels, 102 companies), Photon International, Feb 2013.

8 Compared with the top 15 manufacturers. SunPower Warranty Review, Feb 2013.

9 Some exclusions apply. See warranty for details.

10 5 of top 8 panel manufacturers from 2013 report were tested, 3 additional silicon solar panels for the 2014. Ferrara, C., et al. "Fraunhofer PV Durability Initiative for Solar Modules: Part 2". Photovoltaics International, 77–85. 2014.

11 Compared with the non-stress-tested control panel. Atlas 25+ Durability test report, Feb 2013.from 2013 report were tested, 3 additional silicon solar panels for the 2014. Ferrara, C., et al. "Fraunhofer PV Durability Initiative for Solar Modules: Part 2". Photovoltaics International, 77–85. 2014.

12 Standard Test Conditions (1000 W/m² irradiance, AM 1.5, 25° C).

13 Based on average of measured power values during production

See http://www.sunpower.com/facts for more reference information.
For more details, see extended datasheet: www.sunpower.com/datasheets. Read safety and installation instructions before using this product.