



SunPower® E-Series Commercial Solar Panels | E20-327-COM

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.^{1,2,3}

Commercial Grade

Optimised to maximise 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.^{4,5}

Designed for Reliability

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

#1 Rank in Fraunhofer durability test.¹⁰
100% power maintained in Atlas 25+ comprehensive Durability test.¹¹

High Performance & Excellent Reliability



SPR-E20-327-COM

High Efficiency⁶

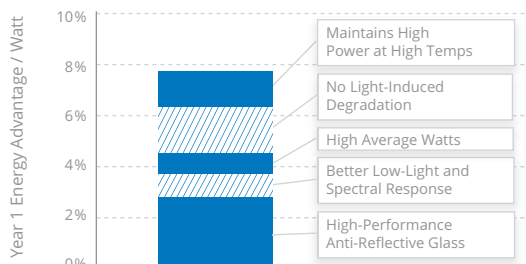
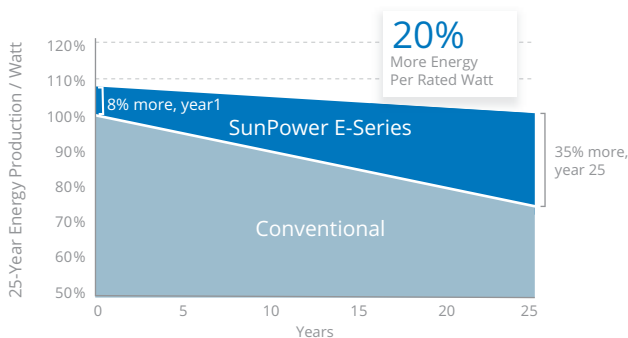
Generate more energy per square meter

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

High Energy Production⁷

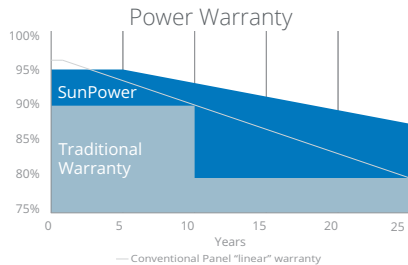
Produce more energy per rated watt

More energy to power your operations. 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

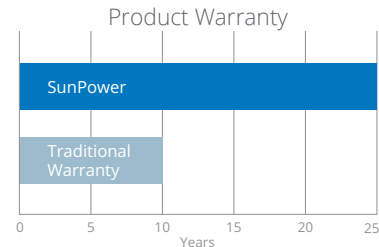


SunPower® E-Series Commercial Solar Panels | E20-327-COM

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.⁹

Electrical Data

	SPR-E20-327-COM	SPR-E19-310-COM
Nominal Power (P _{nom}) ¹²	327 W	310 W
Power Tolerance	+5/-3%	+5/-3%
Avg. Panel Efficiency ¹³	20.3%	19.3%
Rated Voltage (V _{mpp})	54.7 V	54.7 V
Rated Current (I _{mpp})	5.98 A	5.67 A
Open-Circuit Voltage (V _{oc})	64.9 V	64.4 V
Short-Circuit Current (I _{sc})	6.46 A	6.05 A
Max. System Voltage	1000 V IEC & 1000 V UL	
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	

Tests And Certifications

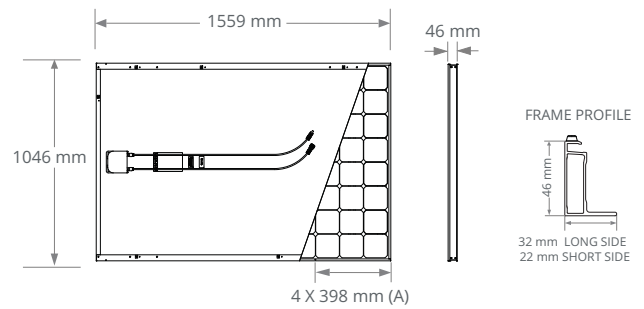
Standard tests ¹⁴	IEC 61215, IEC 61730, UL1703 (Type 2 Fire Rating)
Quality Certs	ISO 9001:2008, ISO 14001:2004
EHS Compliance	RoHS, OHSAS 18001:2007, lead free, PV Cycle, REACH SVHC-155
Ammonia test	IEC 62716
Desert test	10.1109/PVSC.2013.6744437
Salt Spray test	IEC 61701 (maximum severity)
PID test	Potential-Induced Degradation free: 1000V ¹⁰
Available listings	TUV, MCS, UL, JET, CSA, CEC, FSEC

Operating Condition And Mechanical Data

Temperature	-40°C to +85°C
Impact resistance	25mm diameter hail at 23 m/s
Appearance	Class B
Solar Cells	96 Monocrystalline Maxeon Gen II
Tempered Glass	High transmission tempered Anti-Reflective
Junction Box	IP-65 Rated, Tyco (PV4)
Weight	18,6 kg
Max load	Wind: 2400 Pa, 244 kg/m ² front & back Snow: 5400 Pa, 550 kg/m ² front
Frame	Class 2 silver anodised

REFERENCES:

- All comparisons are SPR-E20-327 vs. a representative conventional panel: 250W, approx. 1.6 m², 15.3% efficiency.
- PVEvolution Labs "SunPower Shading Study," Feb 2013.
- Typically 7-9% more energy per watt, BEW/DNV Engineering "SunPower Yield Report," Jan 2013.
- 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, Q4-2014.
- "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.
- Second highest, after SunPower X-Series, of over 3,200 silicon solar panels, Photon Module Survey, Feb 2014.
- 8% more energy than the average of the top 10 panel companies tested in 2012 (151 panels, 102 companies), Photon International, Feb 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 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.
- 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). NREL calibration Standard: SOMS current, LACCS FF and Voltage.
- Based on average of measured power values during production.
- Type 2 fire rating per UL1703:2013, Class C fire rating per UL1703:2002.



Please read the safety and installation guide.

See <http://www.sunpower.com/facts> for more reference information. For more details, see extended datasheet: www.sunpower.com/datasheets.

Document # 506488 Rev B /A4_UK_AUS

©April 2015 SunPower Corporation. All rights reserved. SUNPOWER, the SUNPOWER logo, MAXEON, and SIGNATURE are trademarks or registered trademarks of SunPower Corporation. Specifications included in this datasheet are subject to change without notice.

SUNPOWER®