



- **20.4% efficiency**

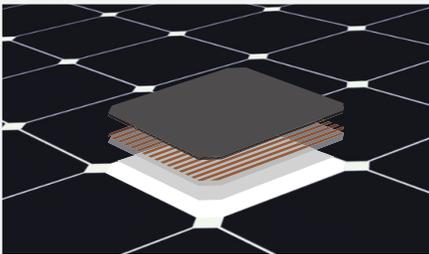
Captures more sunlight and generates more power than conventional panels.

- **High performance**

Delivers excellent performance in real world conditions, such as high temperatures, cold and low light.<sup>1, 2, 3</sup>

- **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.<sup>4, 5</sup>

**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.<sup>4, 5</sup>

**#1 Ranked** in Fraunhofer durability test.<sup>10</sup>

**100% power** maintained in Atlas 25+ comprehensive PVDI Durability test.<sup>11</sup>

### HIGH PERFORMANCE & EXCELLENT RELIABILITY



E20 - 327 PANEL



### HIGH EFFICIENCY<sup>6</sup>

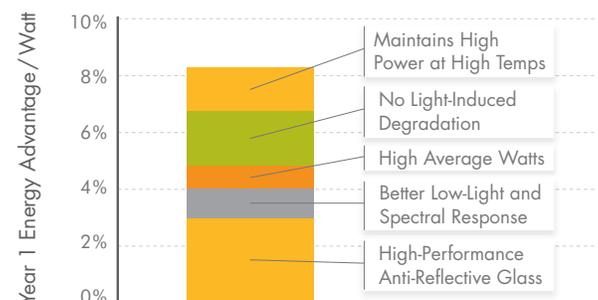
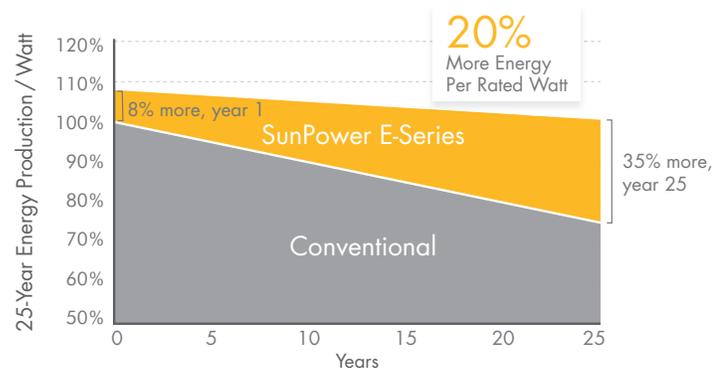
**Generate more energy per square foot**

E-Series commercial panels convert more sunlight to electricity producing 36% more power per panel,<sup>1</sup> and 60% more energy per square foot over 25 years.<sup>3, 4</sup>

### HIGH ENERGY PRODUCTION<sup>7</sup>

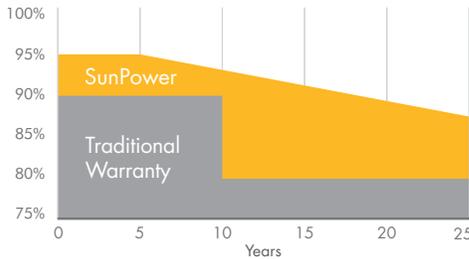
**Produce more energy per rated watt**

More energy to power your operations. High year one performance delivers 7-9% more energy per rated watt.<sup>3</sup> This advantage increases over time, producing 20% more energy over the first 25 years to meet your needs.<sup>4</sup>



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. <sup>8</sup>

### PRODUCT WARRANTY



Combined Power and Product Defect 25 year coverage that includes panel replacement costs. <sup>9</sup>

### ELECTRICAL DATA

	E20-327-COM	E19-310-COM
Nominal Power <sup>12</sup> (Pnom)	327 W	310 W
Power Tolerance	+5/-3%	+5/-3%
Avg. Panel Efficiency <sup>13</sup>	20.4%	19.3%
Rated Voltage (Vmpp)	54.7 V	54.7 V
Rated Current (Impp)	5.98 A	5.67 A
Open-Circuit Voltage (Voc)	64.9 V	64.4 V
Short-Circuit Current (Isc)	6.46 A	6.05 A
Maximum System Voltage	1000 V UL ; 1000 V IEC	
Maximum Series Fuse	20 A	
Power Temp Coef. (Pmpp)	-0.38% / °C	
Voltage Temp Coef. (Voc)	-176.6 mV / °C	
Current Temp Coef. (Isc)	3.5 mA / °C	

### OPERATING CONDITION AND MECHANICAL DATA

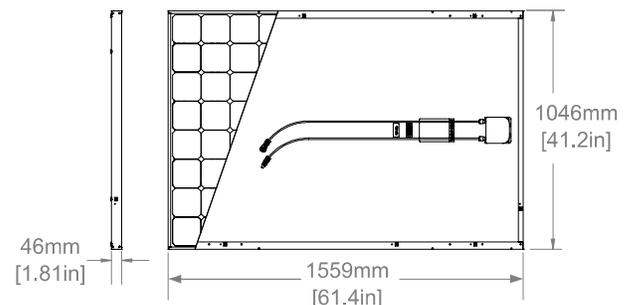
Temperature	- 40°F to +185°F (- 40°C to +85°C)
Max load	Wind: 50 psf, 2400 Pa, 245 kg/m <sup>2</sup> front & back Snow: 112 psf, 5400 Pa, 550kg/m <sup>2</sup> front
Impact resistance	1 inch (25 mm) diameter hail at 52 mph (23 m/s)
Appearance	Class B
Solar Cells	96 Monocrystalline Maxeon Gen II Cells
Tempered Glass	High Transmission Tempered Anti-Reflective
Junction Box	IP-65 Rated
Connectors	MC4 Compatible
Frame	Class 2 silver anodized
Weight	41 lbs (18.6 kg)

### 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 <sup>10</sup>
Available listings	CEC, JET, KEMCO, MCS, FSEC, CSA, UL, TUV

#### REFERENCES:

- All comparisons are SPR-E20-327 vs. a representative conventional panel: 240W, approx. 1.6 m<sup>2</sup>, 15% 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, 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 International, March 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/m<sup>2</sup> irradiance, AM 1.5, 25° C).
- Based on average of measured power values during production.



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

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

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