



- **20.4% efficiency**

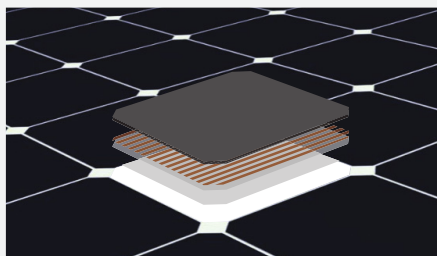
Ideal for roofs where space is at a premium or where future expansion might be needed.

- **High performance**

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

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

**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.<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 DURABILITY



E20 - 327 PANEL



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

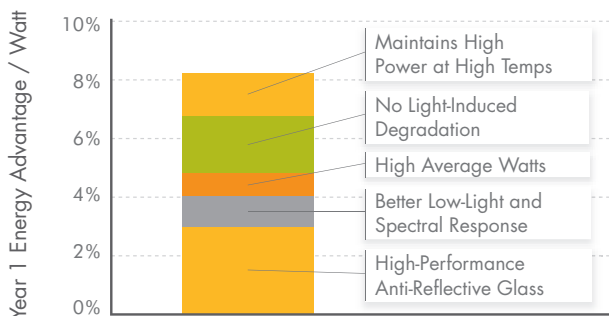
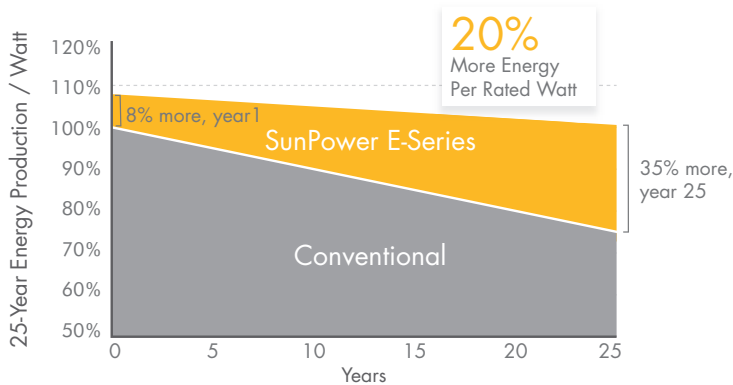
**Generate more energy per square foot**

E-Series residential 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>

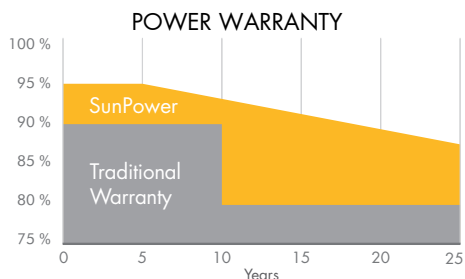
### HIGH ENERGY PRODUCTION<sup>7</sup>

**Produce more energy per rated watt**

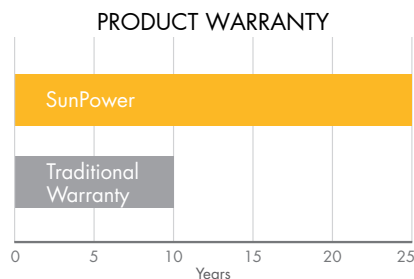
High year one performance delivers 7-9% more energy per rated watt.<sup>3</sup> This advantage increases over time, producing 20% more energy over the first 25 years to meet your needs.<sup>4</sup>



SUNPOWER OFFERS THE BEST COMBINED POWER AND PRODUCT WARRANTY



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



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

### ELECTRICAL DATA

	<b>E20-327</b>	<b>E19-320</b>
Nominal Power <sup>12</sup> (P <sub>nom</sub> )	327 W	320 W
Power Tolerance	+5/-0%	+5/-0%
Avg. Panel Efficiency <sup>13</sup>	20.4%	19.8%
Rated Voltage (V <sub>mpp</sub> )	54.7 V	54.7 V
Rated Current (I <sub>mpp</sub> )	5.98 A	5.86 A
Open-Circuit Voltage (V <sub>oc</sub> )	64.9 V	64.8 V
Short-Circuit Current (I <sub>sc</sub> )	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/m <sup>2</sup> front & back Snow: 112 psf, 5400 Pa, 550 kg/m <sup>2</sup> 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 <sup>10</sup>
Available listings	UL, CEC, CSA, TUV, JET, KEMCO, MCS, FSEC

### REFERENCES:

- All comparisons are SPR-E20-327 vs. a representative conventional panel: 250W, approx. 1.6 m<sup>2</sup>, 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, 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.
- 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. 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.
- Standard Test Conditions (1000 W/m<sup>2</sup> irradiance, AM 1.5, 25° C).
- Based on average of measured power values during production

