

## E-Series | E20 - 327 Residential Solar Panels

#### 20.4% Efficiency

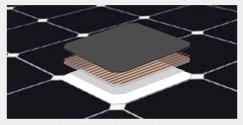
Ideal for roofs where space is at a premium or where future expansion might be needed.

#### High Performance

Delivers excellent performance in real world conditions, such as high temperatures, cloudy days 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<sup>™</sup> 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<sup>®</sup> 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





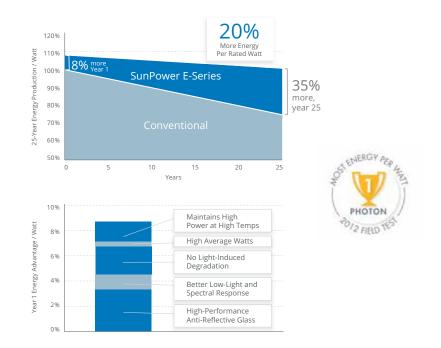
#### High Efficiency<sup>6</sup> Generate more energy per square foot

E-Series residential panels convert more sunlight to electricity producing 31% more power per panel,<sup>1</sup> and 60% more energy per square foot over 25 years.<sup>1,4</sup>

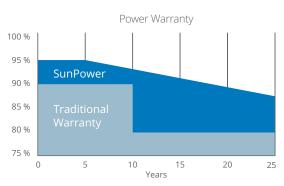
## High Energy Production<sup>7</sup>

#### Produce more energy per rated watt

High year one performance delivers 7-10% 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°



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

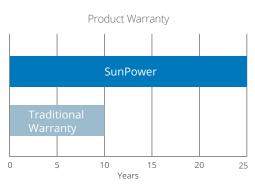
Electrical Data	
	E20-327
Nominal Power <sup>12</sup> (Pnom)	327 W
Power Tolerance	+5 /- 0%
Avg. Panel Efficiency <sup>13</sup>	20.4%
Rated Voltage (Vmpp)	54.7 V
Rated Current (Impp)	5.98 A
Open-Circuit Voltage (Voc)	64.9 V
Short-Circuit Current (Isc)	6.46 A
Max. System Voltage	600 V UL ; 1000 V IEC
Maximum Series Fuse	20 A
Power Temp Coef. (Pmpp)	–0.38% / °C
Voltage Temp Coef. (Voc)	–176.6 mV / °C
Current Temp Coef. (lsc)	3.5 mA / °C

REFERENCES:

- All comparisons are SPR-E20-327 vs. a representative conventional panel: 250W, approx. 1.6 m<sup>2</sup>, 15.3% efficiency.
- 2 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.
- 8% more energy per watt, 0.75%/yr slower degradation. BEW/DNV Eng. "SunPower Yield Report," Jan 2013. Jordan, Dirk "SunPower Test Report," NREL, Oct 2012. Campeau, Z. et al. "SunPower Module Degradation Rate," SunPower white paper, Feb 2013. See sunpower.com/ solar-panels-technology/facts/ for details.
- "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 Out of all 3200 panels listed in Photon International, Feb 2013
- 7 Most energy per rated watt out of 151 panels tested. 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 Fraunhofer CSE, Feb. 2013. Five out of the top 8 largest manufacturers were tested. Campeau, Z., et al., "SunPower Degradation Rate," SunPower white paper, Feb. 2013. See sunpower.com/solar-panels-technology/facts/ for details
- 11 Compared with the non-stress-tested control panel. Atlas 25+ Durability test report, Feb 2013.
- 12 Standard Test Conditions (1000 W/m<sup>2</sup> irradiance, AM 1.5, 25° C).
- 13 Based on average of measured power values during production.

See http://www.sunpower.com/solar-panels-technology/facts/ for more reference information. Read safety and installation instructions before using this product. © 2015 SunPower Corporation. All rights reserved. SUNPOWER, the SUNPOWER logo and MAXEON are trademarks or registered trademarks of SunPower Corporation.

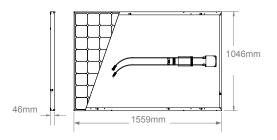
Specifications included in this datasheet are subject to change without notice



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

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	Yukita / MC4	
Frame	Class 1 black anodized, highest AAMA Rating	
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



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