



HIGH PERFORMANCE & EXCELLENT RELIABILITY



E20 - 327 PANELS

- **20.4% efficiency**

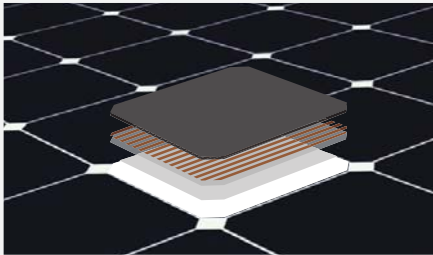
Captures more sunlight and generates more power than conventional panels.

- **High performance**

Delivers excellent performance in real world conditions, such as high temperatures, clouds and low light.^{1,2,3}

- **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.^{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.^{4,5}

#1 Ranked in Fraunhofer durability test.¹⁰

100% power maintained in Atlas 25+ comprehensive PVDI Durability test.¹¹

HIGH EFFICIENCY⁶

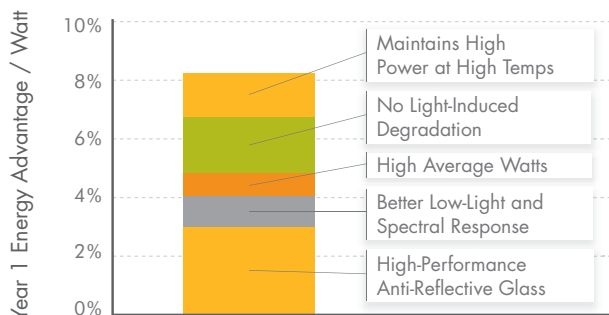
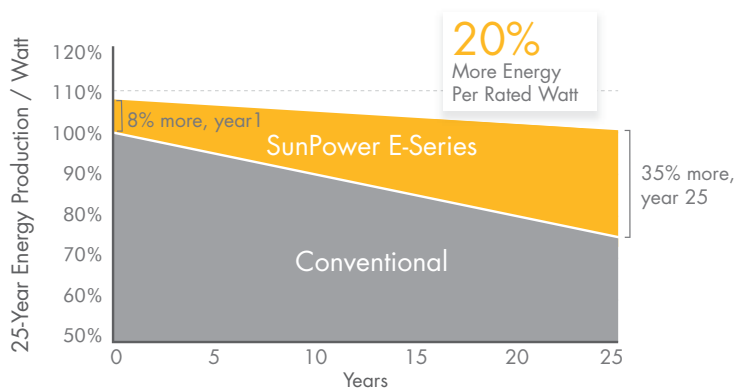
Generate more energy per square meter

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}

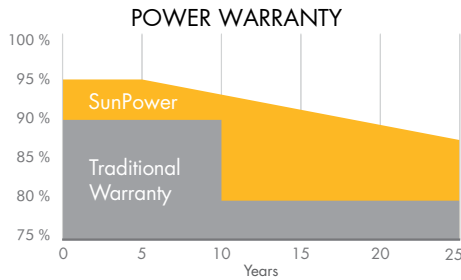
HIGH ENERGY PRODUCTION⁷

Produce more energy per rated watt

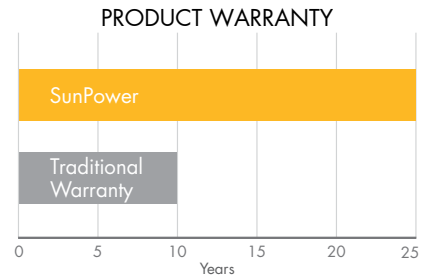
More energy to power your operations. High year one performance delivers 7-9% more energy per rated watt.³ This advantage increases over time, producing 20% more energy over the first 25 years to meet your needs.⁴



SUNPOWER 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 that includes panel replacement costs.⁹

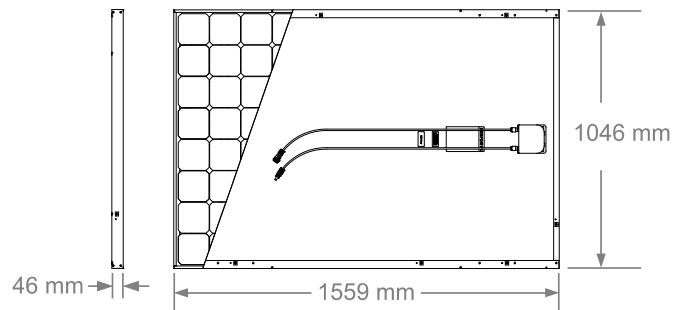
| | ELECTRICAL DATA | |
|---|------------------------|-------------|
| | E20-327-COM | E19-310-COM |
| Nominal Power ¹² (P _{nom}) | 327 W | 310 W |
| Power Tolerance | +5/-3% | +5/-3% |
| Avg. Panel Efficiency ¹³ | 20.4% | 19.3% |
| Rated Voltage (V _{mpp}) | 54.7 V | 54.7 V |
| Rated Current (I _{mpp}) | 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 | 20 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°C to +85°C |
| Max load | Wind: 2400 Pa, 245 kg/m ² front & back Snow: 5400 Pa, 550 kg/m ² front |
| 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 |
| Connectors | Yukita (YS-254/YS-255) |
| Frame | Class 2 silver anodized |
| Weight | 18,6 kg |

| TESTS AND CERTIFICATIONS | |
|--------------------------|---|
| Standard tests | IEC 61215, IEC 61730, UL1703 |
| Quality tests | ISO 9001:2008, ISO 14001:2004 |
| EHS Compliance | RoHS, OHSAS 18001:2007, lead free, PV Cycle |
| Ammonia test | IEC 62716 |
| Salt Spray test | IEC 61701 (passed maximum severity) |
| PID test | Potential-Induced Degradation free: 1000V ¹⁰ |
| Available listings | TUV, MCS, UL, JET, KEMCO, CSA, CEC, FSEC |

REFERENCES:

- All comparisons are SPR-E20-327 vs. a representative conventional panel: 240W, approx. 1.6 m², 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/m² 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 more details, see extended datasheet: www.sunpowercorp.com/datasheets. Read safety and installation instructions before using this product.

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