SUNPOWER

E19 / 320 SOLAR PANEL

MAXIMUM EFFICIENCY AND PERFORMANCE

BENEFITS

Highest Efficiency

SunPowerTM Solar Panels are the most efficient photovoltaic panels on the market today.

More Power

Our panels produce more power in the same amount of space—up to 50% more than conventional designs and 100% more than thin film solar panels.

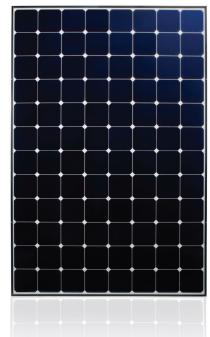
Reduced Installation Cost

More power per panel means fewer panels per install. This saves both time and money.

Reliable and Robust Design

Proven materials, tempered front glass, and a sturdy anodized frame allow panel to operate reliably in multiple mounting configurations.



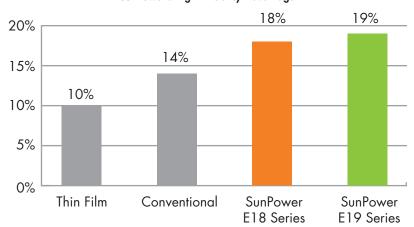




The planet's most powerful solar panel.

The SunPower™ 320 Solar Panel provides today's highest efficiency and performance. Utilizing 96 back-contact solar cells, the SunPower 320 delivers a total panel conversion efficiency of 19.6%. The 320 panel's reduced voltage-temperature coefficient, anti-reflective glass and exceptional low-light performance attributes provide outstanding energy delivery per peak power watt.







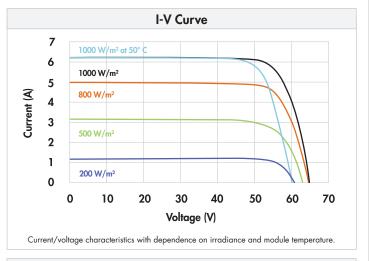
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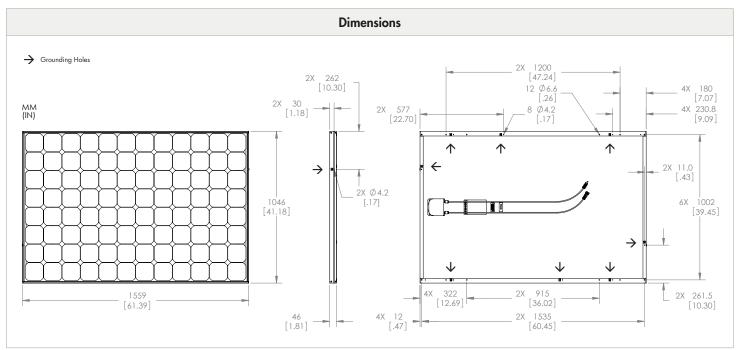
| Elec | trical Data | |
|--|--------------------------------------|---------------------|
| Measured at Standard Test Conditions (STC): irro | adiance of 1000W/m², AM 1.5, and cel | I temperature 25° C |
| Peak Power (+5/-3%) | P_{max} | 320 W |
| Efficiency | η | 19.6 % |
| Rated Voltage | V _{mpp} | 54.7 V |
| Rated Current | I _{mpp} | 5.86 A |
| Open Circuit Voltage | V _{oc} | 64.8 V |
| Short Circuit Current | I _{sc} | 6.24 A |
| Maximum System Voltage | UL | 600 V |
| Temperature Coefficients | Power (P) | -0.38% / K |
| | Voltage (V _{oc}) | -176.6mV / K |
| | Current (I _{sc}) | 3.5mA / K |
| NOCT | | 45° C +/-2° C |
| Series Fuse Rating | | 20 A |

| Mechanical Data | | |
|-----------------|--|--|
| Solar Cells | 96 SunPower all-back contact monocrystalline | |
| Front Glass | High transmission tempered glass with anti-reflective (AR) coating | |
| Junction Box | IP-65 rated with 3 bypass diodes | |
| | Dimensions: 32 x 155 x 128 (mm) | |
| Output Cables | 1000mm length cables / MultiContact (MC4) connectors | |
| Frame | Anodized aluminum alloy type 6063 (black) | |
| Weight | 41.0 lbs (18.6 kg) | |



| Tested Operating Conditions | | |
|-----------------------------|---|--|
| Temperature | -40° F to +185° F (-40° C to + 85° C) | |
| Max load | 113psf 550 kg/m² (5400 Pa), front (e.g. snow) w / specified mounting configurations | |
| | 50 psf 245 kg/m² (2400 Pa) front and back – e.g. wind | |
| Impact Resistance | Hail 1 in (25 mm) at 51 mph (23 m/s) | |

| Warranties and Certifications | | |
|-------------------------------|--|--|
| Warranties | 25 year limited power warranty | |
| | 10 year limited product warranty | |
| Certifications | Tested to UL 1703. Class C Fire Rating | |



CAUTION: READ SAFETY AND INSTALLATION INSTRUCTIONS BEFORE USING THE PRODUCT.