Optimize System and Installation Efficiency

SunPower® AC modules, which include a factory-integrated SunPower microinverter, provide a revolutionary combination of high efficiency, high reliability, and module-level DC-to-AC power conversion. Designed specifically for use with SunPower InvisiMount™ and the SunPower Monitoring System, SunPower AC modules enable rapid installation, best-in-class system aesthetics, and intuitive visibility into system performance. All this comes with the best Combined Power and Product Warranty in the industry.

Grid Support Utility-Interactive Smart Inverter

SunPower’s new Type D AC module is UL tested and certified to UL 1741 SA and provides advanced smart inverter functions. SunPower Type D AC modules are fully compliant with the California Rule 21 Phase 1 requirements, and the Rule 21 grid profile is easily set during commissioning with SunPower PVS5x monitoring hardware.

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Design-Driven Advantages

- #1 module aesthetics and efficiency
- Unmatched module reliability
- No electrolytic capacitors
- 25-year Combined Power and Product Warranty
- California Rule 21 Phase 1 compliant

Maximize Value for Roof

- Size system for roof, not string inverter
- Optimize performance of each module

Expand Deployment Options

- Complex roofs and partial shading
- Small systems
- System expandability

Simplify & Speed Installation

- Factory-integrated microinverter
- Robust, double-locking AC connectors
- Design flexibility offsite and onsite
- No DC string sizing process
- Fewer installation steps than competing systems
- Intuitive commissioning

Component of Complete System

- Built for use with SunPower® InvisiMount™ and the SunPower Monitoring System (PVS5x)
- Superior system reliability and aesthetics
SunPower® E19-320-D-AC | Residential AC Module Series

AC Electrical Data

<table>
<thead>
<tr>
<th>SRD Profile</th>
<th>IEEE 1547a-2014 (^4) (default settings)</th>
<th>CA Rule 21 (^3) min. / nom. / max.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Frequency (Hz)</td>
<td>59.5 / 60.0 / 60.5</td>
<td>58.5 / 60.0 / 60.5</td>
</tr>
<tr>
<td>Power Factor</td>
<td>0.99 / 1.00 / 1.00</td>
<td>0.85 lead / 1.00 / 0.85 lag.</td>
</tr>
<tr>
<td>Reactive Power</td>
<td>(\pm 169) Var Volt-VAr</td>
<td></td>
</tr>
</tbody>
</table>

- Voltage: @240 V / @208 V
  - 211.2 / 240 / 264 V
  - 183 / 208 / 228.8 V
- Max. Current: @240 V / @208 V
  - 1.33 A
  - 1.54 A
- DC/AC CEC Conversion Efficiency: @240 V / @208 V
  - 96.0%
  - 95.5%
- Max. Units Per 20 A Branch Circuit: @240 V / @208 V
  - 12 (single phase)
  - 10 (two pole)
- Power: 320 W, 320 VA

No active phase balancing for 3 phase installations

DC Power Data

<table>
<thead>
<tr>
<th>SPR-E19-320-D-AC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nominal Power (^4) (Pnom)</td>
</tr>
<tr>
<td>Power Tolerance</td>
</tr>
<tr>
<td>Avg. Panel Efficiency</td>
</tr>
<tr>
<td>Temp. Coef. (Power)</td>
</tr>
</tbody>
</table>
| Shade Tolerance | • Three bypass diodes
  • Integrated module-level maximum power point tracking |

Tested Operating Conditions

| Operating Temp. | −40°F to +185°F (−40°C to +85°C) |
| Max. Ambient Temp. | 122°F (50°C) |
| Max. Load | Wind: 62 psf, 3000 Pa, 305 kg/m² front & back
  Snow: 125 psf, 6000 Pa, 611 kg/m² front |
| Impact Resistance | 1 inch (25 mm) diameter hail at 52 mph (23 m/s) |

Mechanical Data

- Solar Cells: 96 Monocrystalline Maxeon Gen II
- Front Glass: High-transmission tempered glass with anti-reflective coating
- Environmental Rating: Outdoor rated
- Frame: Class 1 black anodized (highest AAMA rating)
- Weight: 45.5 lbs (20.6 kg)
- Recommended Max. Module Spacing: 1.3 in. (33 mm)

Warranties and Certifications

- 25-year limited power warranty
- 25-year limited product warranty

- UL listed to UL 1741 SA
- SRDs: IEEE 1547-2003, IEEE 1547a-2014, CA Rule 21 Phase 1
- PV Rapid Shutdown Equipment
- Equipment Grounding
- UL 6703, UL 9703 Connectors and cables (load break disconnection)
- UL 1741 AC Module (Type 2 fire rating)

- Enables installation in accordance with:
  - NEC 690.6
  - NEC 690.12 Rapid Shutdown (inside and outside the array)
  - NEC 690.15 AC Connectors, 690.33(A) – (E)(1)
- FCC and ICES-003 Class B

When used with InvisiMount racking (UL 2703):
- Integrated grounding and bonding
- Class A fire rated

- PID Test: Potential-induced degradation free

3Factory set to 1547a-2014 default settings. CA Rule 21 default settings profile set during commissioning. See the Equinox Installation Guide #518101 for more information.
4Standard Test Conditions (1000 W/m² irradiance, AM 1.5, 25°C). NREL calibration standard: SOMS current, LACCS FF and voltage. All DC voltage is fully contained within the module.
5Based on average of measured power values during production.

Please read the safety and installation instructions for details.

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For more details, see extended datasheet: www.sunpower.com/datasheets.