SunPower® P19-410-COM

SunPower® Performance Panel for Commercial Installations

SunPower Performance Panels wrap front contact cells with 30+ years of SunPower materials and manufacturing expertise. The weakest points of Conventional Panel design are eliminated to deliver superior power, reliability, value and savings.¹

**High Power**

Enhanced active area and mono PERC cells optimize power density, while lowering system costs.

**High Performance**

Up to 31% more energy in the same space over 25 years.² Unique parallel circuitry maximizes energy production during morning and evening row-to-row shading, or when panels become soiled.

**High Reliability**

SunPower Performance Panels are the most deployed shingled solar panel in the world.³ Innovative cell shingling mitigates the leading reliability challenges associated with conventional front contact panels by designing out fragile ribbons and solder bonds on the cells. SunPower stands behind its panels with its industry-leading Complete Confidence Warranty. SunPower’s Performance Panels are warranted to produce more than 97% power in the first year, then declining by 0.6% per year, ending at 82.6% power after 25 years.

**25 Year Combined Warranty**

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² Up to 31% more energy in the same space over 25 years.

³ SunPower Performance Panels are the most deployed shingled solar panel in the world.
### Electrical Data

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<tbody>
<tr>
<td>SPR-P19-410-COM</td>
<td>410 W</td>
<td>+5/−0%</td>
<td>19.9%</td>
<td>45.7 V</td>
<td>8.98 A</td>
<td>54.5 V</td>
<td>9.55 A</td>
<td>1000 V IEC</td>
<td>18 A</td>
<td>−0.36%/°C</td>
<td>−0.29%/°C</td>
<td>0.05%/°C</td>
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<td>19.4%</td>
<td>44.8 V</td>
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<td>53.6 V</td>
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<td>52.9 V</td>
<td>9.45 A</td>
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<td>8.80 A</td>
<td>52.5 V</td>
<td>9.44 A</td>
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### Tests And Certifications

- **Standard Tests**: IEC 61215, IEC 61730
- **EHS Compliance**: OHSAS 18001:2007, Recycling Scheme
- **Ammonia Test**: IEC 62716
- **Desert Test**: MIL-STD-810G
- **Salt Spray Test**: IEC 61701 (maximum severity)
- **PID Test**: Potential-Induced Degradation free: 1000 V
- **LeTID Test**: IEC 61215 (MQT 23.1 LeTID detection) draft standard
- **Available Listings**: TUV, MCS

### Operating Condition And Mechanical Data

- **Temperature**: −40° C to +65° C
- **Impact Resistance**: 25 mm diameter hail at 23 m/s
- **Solar Cells**: Monocrystalline PERC
- **Tempered Glass**: High-transmission tempered anti-reflective
- **Junction Box**: IP-67, Multi-Contact (MC4), 3 bypass diodes
- **Weight**: 22 kg
- **Max. Load**: Wind: 2400 Pa, 245 kg/m² front & back
  Snow: 5400 Pa, 550 kg/m² front
- **Frame**: Class 2 silver anodized

### Dimensions

- **A**: Cable Length: 1000 mm +/-15 mm
- **B**: Long Side: 32 mm
- **C**: Short Side: 24 mm

Read safety and installation instructions before using this product.