Helix™ Compatible Modules
Factory-installed flanges enable tool-free panel installation, decreasing installation time and minimizing business disruption.1

More than 21% Efficiency
Captures more sunlight and generates more power than conventional panels.2

Maximum Performance
Designed to perform in demanding real-world conditions of high temperatures, partial shade from overhead wires, and low light.2,3,5

Commercial Grade
Intended for commercial sites where maximum energy production is critical.

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 built on a solid copper foundation. Virtually impervious to the corrosion and cracking that degrade conventional panels.4

Same excellent durability as E-Series panels. #1 Rank in Fraunhofer durability test.10 100% power maintained in Atlas 25+ comprehensive durability test.11

High Performance & Excellent Reliability

Highest Efficiency6
Generate more energy per square foot
X-Series commercial panels convert more sunlight to electricity by producing 38% more power per panel2 and 70% more energy per square foot over 25 years.2,3,4

Highest Energy Production7
Produce more energy per rated watt
More energy to power your operations. High year-one performance delivers 8–10% more energy per rated watt.3 This advantage increases over time, producing 21% more energy over the first 25 years to meet your needs.4

21%
More Energy Per Rated Watt

36% more, year 25

21%
More Energy Per Rated Watt

9% more, year 1

8–10% more energy per rated watt

SunPower X-Series

Conventional

Maintains High Power at High Temps
No Light-Induced Degradation
High Average Watts
Better Low-Light and Spectral Response
High-Performance Anti-Reflective Glass

Maxeon® Solar Cells: Fundamentally better
Engineered for performance, designed for reliability.

Helix-compatible module available
SunPower® X-Series Commercial Solar Panels | X21-345-COM

SunPower Offers The Best Combined Power And Product Warranty

More guaranteed power: 95% for first 5 years, 
~0.4%/yr. to year 25

Electrical Data

<table>
<thead>
<tr>
<th>SPR-X21-345-COM</th>
<th>SPR-X20-327-COM</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nominal Power (Pnom)</td>
<td>345 W</td>
</tr>
<tr>
<td>Power Tolerance</td>
<td>+5%/-3%</td>
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<tr>
<td>Avg. Panel Efficiency</td>
<td>21.5%</td>
</tr>
<tr>
<td>Rated Voltage (Vmp)</td>
<td>57.3 V</td>
</tr>
<tr>
<td>Rated Current (Imp)</td>
<td>6.02 A</td>
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<tr>
<td>Open-Circuit Voltage (Voc)</td>
<td>68.2 V</td>
</tr>
<tr>
<td>Short-Circuit Current (Isc)</td>
<td>6.39 A</td>
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<tr>
<td>Max. System Voltage</td>
<td>1000 V UL &amp; 1000 V IEC</td>
</tr>
<tr>
<td>Maximum Series Fuse</td>
<td>15 A</td>
</tr>
<tr>
<td>Power Temp Coef.</td>
<td>-0.30%/°C</td>
</tr>
<tr>
<td>Voltage Temp Coef.</td>
<td>-167.4 mV/°C</td>
</tr>
<tr>
<td>Current Temp Coef.</td>
<td>3.5 mA/°C</td>
</tr>
</tbody>
</table>

REFERENCES:
1 Helix-compatible modules may not be compatible with other racking systems.
2 All comparisons are SPR-X21-345 vs. a representative conventional panel: 250 W, approx. 1.6 m², 15.3% efficiency.
3 Typically 8-10% more energy per watt, BEV/DNV Engineering "SunPower Yield Report", Jan 2013.
5 "SunPower Module 40-Year Useful Life" SunPower white paper, May 2015. Useful life is 99 out of 100 panels operating at more than 70% of rated power.
7 1%/yr more energy than E-Series panels, 8% more energy than the average of the top 10 panel companies tested in 2012 (151 panels, 102 companies), Photon International, Feb 2013.
9 Some restrictions and exclusions may apply. See warranty for details.
13 Based on average of measured power values during production.
14 Type 2 fire rating per UL1703:2013, Class C fire rating per UL1703:2002.
15 See salesperson for details.

See www.sunpower.com/facts for more reference information.
For more details, see extended datasheet: www.sunpower.com/datasheets.

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