HELIX™

THE WORLD’S FIRST FULLY-INTEGRATED COMMERCIAL SOLAR PLATFORM
What happens when an entire organization works well together?
Efficiencies soar. Output increases. Goals are reached.
It’s no easy feat, but when it happens, it’s transformative.

That’s the power of seamless integration.

And the inspiration behind
the all-new Helix platform from SunPower.
The world’s first fully-integrated commercial solar solution.

From solar cells to software,
each system is designed to interact perfectly,
delivering powerful results and exceptional value.

One unified vision. One revolutionary solar platform.
Introducing Helix from SunPower.

THE POWER OF ONE™
WELCOME TO THE SUNPOWER® HELIX™ PLATFORM

Drawing on 30 years of proven experience, Helix is designed and built by one company to make commercial solar incredibly powerful and elegantly simple. Each component is precision-engineered for fast installation, long-term reliability and impressive returns.

Spanning rooftop, ground and carport applications, this clean energy powerhouse also features the advanced intelligence of SunPower® EnergyLink™ software. Delivering unprecedented visibility into—and control over—your solar energy production and consumption.
THE POWER OF ONE™

Maxeon® Solar Cells: Unmatched reliability

Mechanical system: Highest energy density

Power station: Plug-and-play accuracy

Panels: World-record efficiency

Smart Energy: Complete energy management

Cable management: Lifetime durability

POWERFUL INTEGRATION

The Helix design approach is beautifully simple: the more seamless the integration, the more reliable the result. From solar cells and panels to hardware, electronics and energy management, each component is built to interact flawlessly with the next, yielding dramatic efficiencies and greater reliability.
**CELLS**  
SunPower® Maxeon® solar cells look different because they are different – and better. The heart of the Helix platform, their seamless surface captures more sunlight, thanks to our innovative back-contact design. Our patented cell structure also eliminates the causes for cell breaks and corrosion from temperature swings and damp heat, which account for 86% of the reasons conventional cells fail. So you enjoy unmatched reliability and more savings over the lifetime of your system.

**PANELS**  
The world-record setting efficiency of SunPower panels is unmatched in the commercial market today. They produce 60% more energy from the same space over the first 25 years than conventional panels, with less degradation over time. In fact, SunPower panels rank #1 in durability according to energy experts. So you can feel confident you’ve invested wisely in the clean energy future of your organization.

Helix Roof Dual Tilt fits more panels in the same space to provide optimal energy density

Ultra-pure silicon delivers optimal power conversion

Solid copper foundation adds massive strength

Unique light-trapping surface yields more power than conventional solar cells
Our holistic design approach means every component is precision-engineered specifically for Helix, including often-overlooked elements like the power station and cable management systems.

**POWER STATION**
Built in a quality-controlled factory environment, the electrical connections of the Helix power station are preconfigured for easy interconnection. Inverters and panel boards arrive on-site ready for fast installation, with no field wiring or tools required. Not only does this reduce installation time, it greatly improves system reliability. After all, when 100% of manual power station wiring is removed, so are the human errors that may come with it.

**CABLE MANAGEMENT**
A rooftop can be a brutally unforgiving place, with temperature swings, intense sunlight, hail and high winds. Well-secured energy cables are crucial to protecting your investment. Our engineers developed innovative new ways to ensure that wires and cables are protected from abuse and abrasion. Incredibly simple and easy to install, Helix cable clips, cones and trays can help prevent costly downtime.

© 2015 SunPower Corporation. All Rights Reserved.
MECHANICAL SYSTEM

Born from 30 years of product innovation at SunPower, our Helix mechanical system has been perfected to maximize your roof’s energy potential. With flexible ballast and anchor options, industry-leading roof coverage, and a 10-degree tilt angle, Helix perfectly optimizes the power density and energy yield potential of your roof. Add to that our high-efficiency solar panels, and you get more power per panel, more panels per roof, and significantly greater savings. That’s 63% more power per roof and 72% more energy over the life of your system.10 What’s more, the lightweight Helix mechanical system can be installed without tools and is made of exceptionally strong and durable materials. So you can be sure your solar system will deliver the energy you expect for decades to come.
# HEAD TO HEAD COMPARISON

## SUNPOWER

### CELLS AND PANELS

<table>
<thead>
<tr>
<th>SUNPOWER</th>
<th>CONVENTIONAL</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>No Grid Lines on Front of Cell</strong></td>
<td><strong>Line of Metal Paste on Front of Cell</strong>&lt;br&gt;Maxeon cells absorb more sunlight and optimize power conversion.</td>
</tr>
<tr>
<td><strong>Solid Copper Backing</strong></td>
<td><strong>Even More Metal Paste on Back of Cell</strong>&lt;br&gt;Our thick copper foundation adds massive strength and is nearly impervious to corrosion.</td>
</tr>
<tr>
<td><strong>Robust Connectors</strong></td>
<td><strong>Thin, Weak Connections</strong>&lt;br&gt;Expanding and contracting from daily temperature swings are no problem with our built-in strain relief.</td>
</tr>
</tbody>
</table>

## CABLE MANAGEMENT

<table>
<thead>
<tr>
<th>SUNPOWER</th>
<th>CONVENTIONAL</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Cable clips, cones and trays help protect cables from harsh and abrasive roof surfaces.</strong></td>
<td><strong>Zip ties fail as quickly as one year when exposed to UV and heat.</strong></td>
</tr>
</tbody>
</table>

## POWER STATION

<table>
<thead>
<tr>
<th>SUNPOWER</th>
<th>CONVENTIONAL</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Zero manual wiring and no tools for electrical installation virtually eliminate the potential for human error.</strong></td>
<td><strong>Manual wiring is unreliable and highly time consuming.</strong></td>
</tr>
</tbody>
</table>

## MECHANICAL SYSTEM

<table>
<thead>
<tr>
<th>SUNPOWER</th>
<th>CONVENTIONAL</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Highest roof coverage (0.91) delivers the greatest energy density.</strong></td>
<td><strong>Poor roof utilization leaves potential energy savings unclaimed.</strong></td>
</tr>
</tbody>
</table>
SunPower products are made with methods as sustainable as the energy they produce. In fact, we are the world’s first and only solar company to earn the prestigious Cradle to Cradle Certified™ Silver designation for panels manufactured in Mexico and France, comprising 75% of shipments globally.

Helix incorporates 92% recycled rubber cones and trays, recyclable marine-grade aluminum, plug-and-play connections for less job-site waste from wiring, and EnergyLink software to help you measure carbon savings and improve energy efficiency.

At SunPower, sustainability is not just about environmental stewardship; it’s also about having a positive social impact and contributing to economic growth. When you choose SunPower to help bring your business into a more sustainable future, you are choosing a sustainability leader dedicated to ensuring a cleaner, brighter future.

Cradle to Cradle Certified™ is a certification mark licensed by the Cradle to Cradle Products Innovation Institute. Cradle to Cradle Certified™ is a multi-attribute certification program that assesses products and materials for safety to human and environmental health, design for future use cycles, and sustainable manufacturing.
Contact us today to request a free solar consultation and begin taking control of your energy future.

sunpower.com/helix
1.800.SUNPOWER

3 Cable cones and trays are made from 92% recycled rubber and are designed for a 25-year life. Cable clips are made from stainless steel and are also designed and tested for a 25-year life.
4 SunPower Helix DT 0.91 ground coverage is highest for any dual tilt product on the market. Highest energy density is achieved when mounting system is paired with high efficiency SunPower 327W panels.
7 SunPower 327W compared to a Conventional Panel (250W, 15.9% efficient, approx. 1.6 m²), 8% more energy per watt, 0.75%/yr slower degradation. BEW/DNV Eng. “SunPower Yield Report,” 2013. Campeau, Z. et al. “SunPower Module Degradation Rate,” SunPower white paper, 2013. See www.sunpowercorp.com/facts for details.
9 Source: Supplier Data Sheets and Installation Guides. Conventional power stations typically require 18 manual DC and AC connections; includes output of DC combiner and input of 2 MPPT channels in inverter and also L1, L2, L3, N, G for both output of inverter and input of panelboard.
10 SunPower 327W panel with Helix DT compared to standard efficiency Conventional 260W panel and flat roof mounting system.

© 2015 SunPower Corporation. All Rights Reserved. SUNPOWER, the SUNPOWER logo, HELIX, MAXEON, THE POWER OF ONE, POWERING A BRIGHTER TOMORROW and ENERGYLINK are trademarks or registered trademarks of SunPower Corporation in the U.S. and other countries as well.