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Helix Platform Overview

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Complexity is Costly, Inefficient and Risky

Actual commercial installer profile¹



¹ GTM PV Leaderboard, Q4 2014 and industry analysis.



Design Simplicity

Fewer moving parts; less system variation



Design & Construction Consistency Operational Efficiency System Reliability Higher System Production Certainty

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SunPower Integrated Design Philosophy



Whole System Thinking

- Consider all parts, including connections between parts
- Design for system-level goals
- Cross-functional design approach

SunPower Integrated Design Philosophy

Design DNA

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2015

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O A S I S[®]



Pioneering Solution Approach - 2010

$SunPower^{{I\!\!R}}\,Oasis^{{I\!\!R}}\,Power\,Plant$



The world's first fully-integrated **power plant** solution



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The Power of One™

¹ #1 rank in "Fraunhofer PV Durability Initiative for Solar Modules: Part 2". Photovoltaics International, 2014. Campeau, Z. et al. "SunPower Module Degradation Rate," SunPower white paper, 2013. See www.sunpowercorp.com/facts for details.

² Green, M. A., et. al. "Solar Cell Efficiency Tables (version 43)," Progress in Photovoltaics, 2014

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 the highest for any dual tilt product on the market. Highest energy density is achieved when mounting system is pairing with high efficiency SunPower 327W panels.

The World's First Fully-Integrated Commercial Solar Platform

SunPower[®] Maxeon[®] Cells



¹Wohlgemuth, J. "Reliability of PV Systems." Proceedings of SPIE, 2008

SunPower[®] Panels



2 "SunPower Module 40-Year Useful Life," SunPower white paper. 2013. Useful life is 99 out of 100 panels operating at more than 70% of rated power.

3 "Fraunhofer PV Durability Initiative for Solar Modules: Part 2". Photovoltaics International, 2014.

4 SunPower 327W compared to a Conventional Panel (250W, 15.3% efficient, approx. 1.6 m²), 8% more energy perwatt, 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. 5 #1 rank in "Fraunhofer PV Durability Initiative for Solar Modules: Part 2". Photovoltaics International, 2014. Campeau, Z et al. "SunPower Module Degradation Rate," SunPower white paper, 2013. See www.sunpowercorp.com/facts for details.

6 SunPower 327W compared to a Conventional Panel (250W, 15.3% efficient, approx. 1.6 m2), 8% more energy perwatt. BEW/DNV Engineering "SunPowerYield Report," 2013.

7 Gilligan, C., et al. 2014 PV Module Customer Insight Survey. IHS Consulting.

8 Hasselbrink, E., et al. "Validation of the PVLife Model Against 3 Million Module-Years of Live Site Data." 39th IEEE PVSC, Tampa Florida, 2013.

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Helix Cable Management

Stainless steel clips built specifically for use First cable management system with SunPower Helix specifically designed for a commercial solar platform Built for lifetime durability¹ **SUNPOWER**[®] **Conventional Solar** VS. HELIX **Robust protection** Zip ties can fail from harsh roof environment and **Cones and trays made from 92%** heat surfaces recycled rubber

¹Cable cones and trays 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.

quickly in UV and

Helix Pre-Configured Power Station

Only preconfigured power station in US commercial solar No tools required, ensuring reliable Eliminates 100% of manual wiring installation on roof

Exclusive SunPower Helix Pre-Configured Power Station eliminates 100% of manual wiring



1 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.

Helix Roof Mounting System



SunPower Helix Roof Mounting, combined with SunPower panels, generates 72% more energy per roof over first 25 years²



Conventional Solar



Highest energy density Poor roof utilization leaves unclaimed savings

¹ 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.

² SunPower 327W panel with Helix DT compared to a standard efficiency Conventional 260W panel with flat roof mounting system. Single Tilt (ST) zero tool option also available

(Dual Tilt (DT) pictured)



Helix Platform



SUNPOWER[®]

H E L I X[™] TRACKER

SUNPOWER®

H E L I X[™] R O O F

SUNPOWER[®]

H E L I X[™] CARPORT

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Thank You

Let's change the way our world is powered.

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