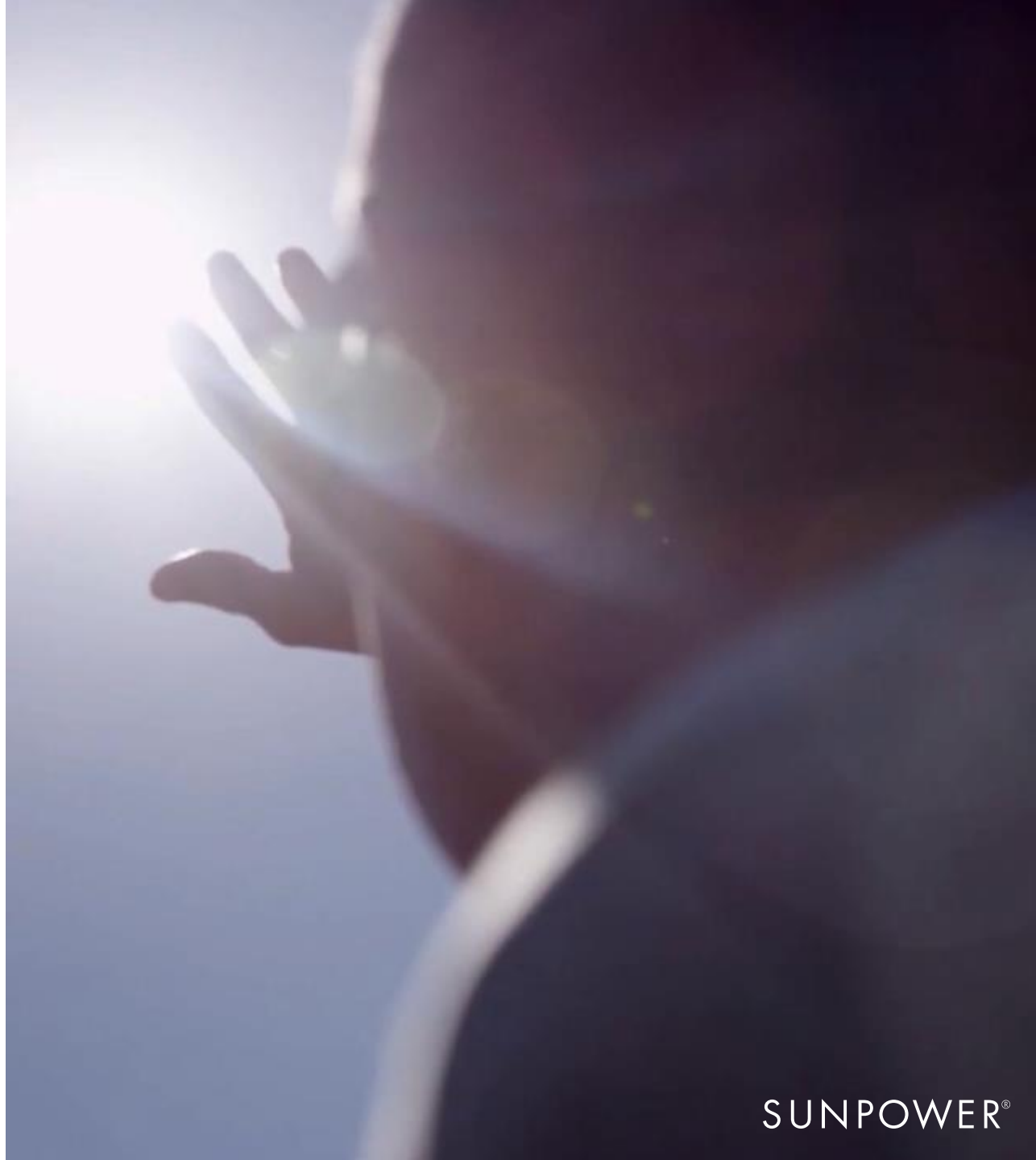
SunPower® Performance Panels in Shade

Advanced design and engineering that delivers more energy, and more savings



Shade happens

It inevitably affects all panels

Energy production and electric bill savings are diminished

Panel design and engineering make a difference

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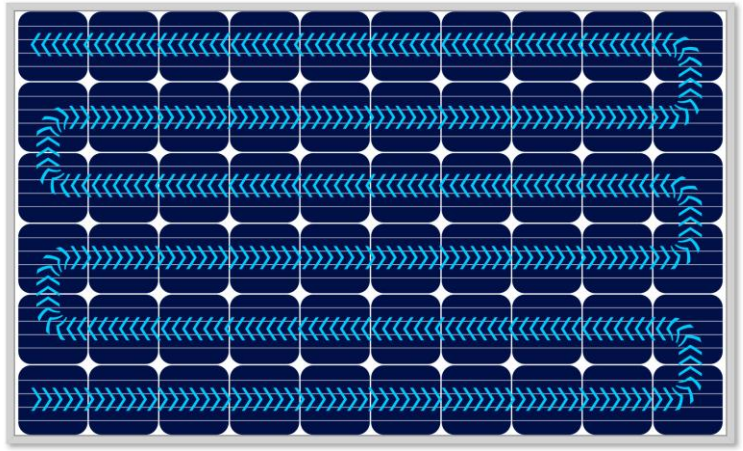
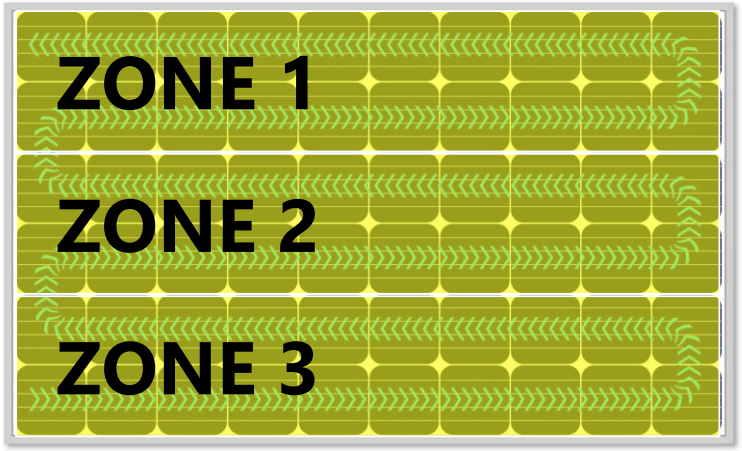
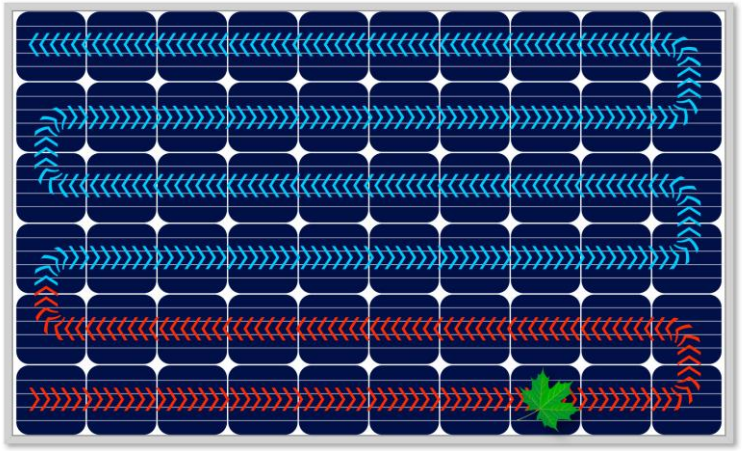
Spot shadows on conventional solar panels



Current progresses in a continuous, serial circuit.



The electrical architecture is typically divided into three zones.



The shade of a single leaf can shut down an entire electrical zone.

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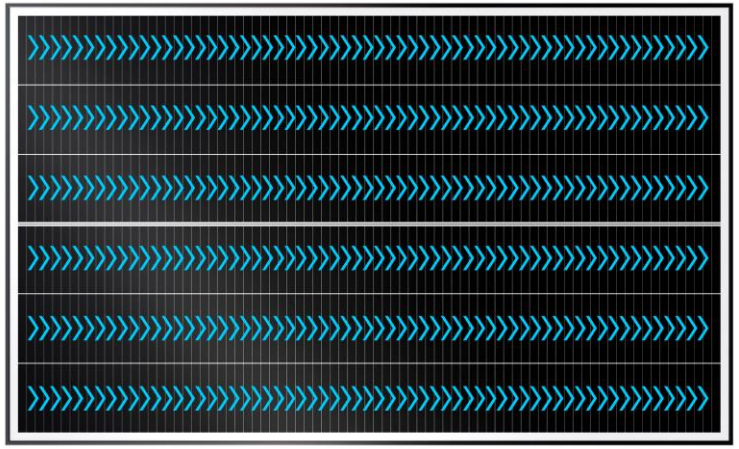
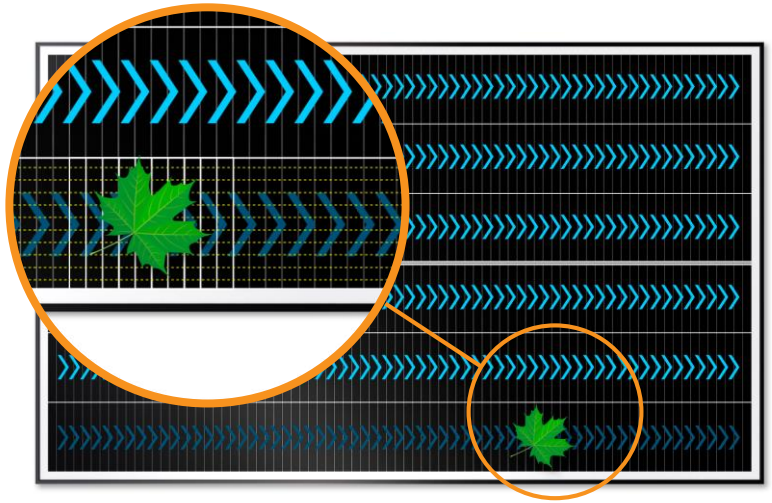
Spot shadows on SunPower® Performance panels



SunPower® Performance panels are egineered to keep energy flowing.

An electrical architecture that is designed for a variety of shading scenarios.



Independent rows of cells backed by redundant connections offer more tolerance against shade.

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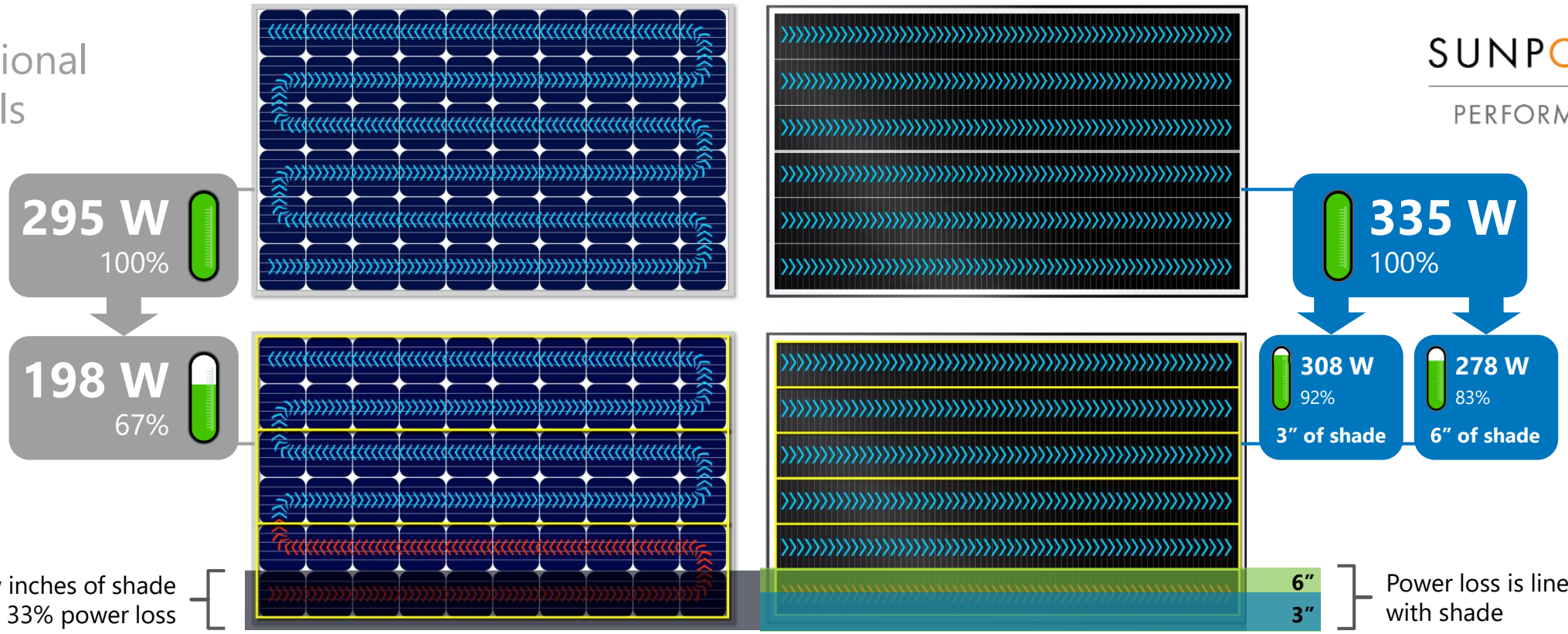
Linear shadows on panels in landscape orientation

Conventional Panels



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Just a few inches of shade causes a 33% power loss

Power loss is linear with shade

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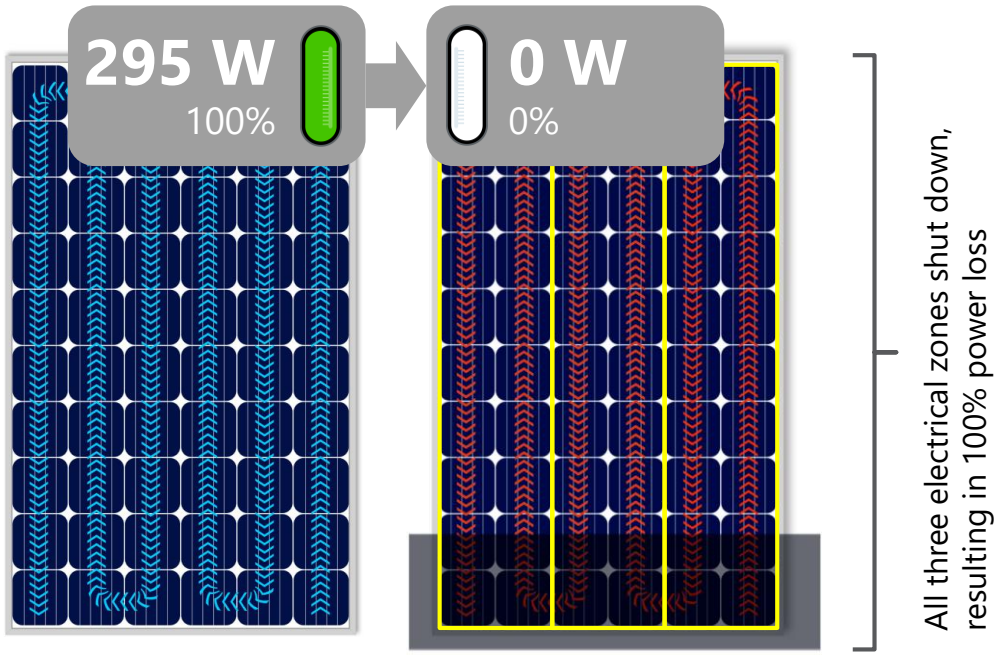
Linear shadows on panels in portrait orientation

Conventional Panels



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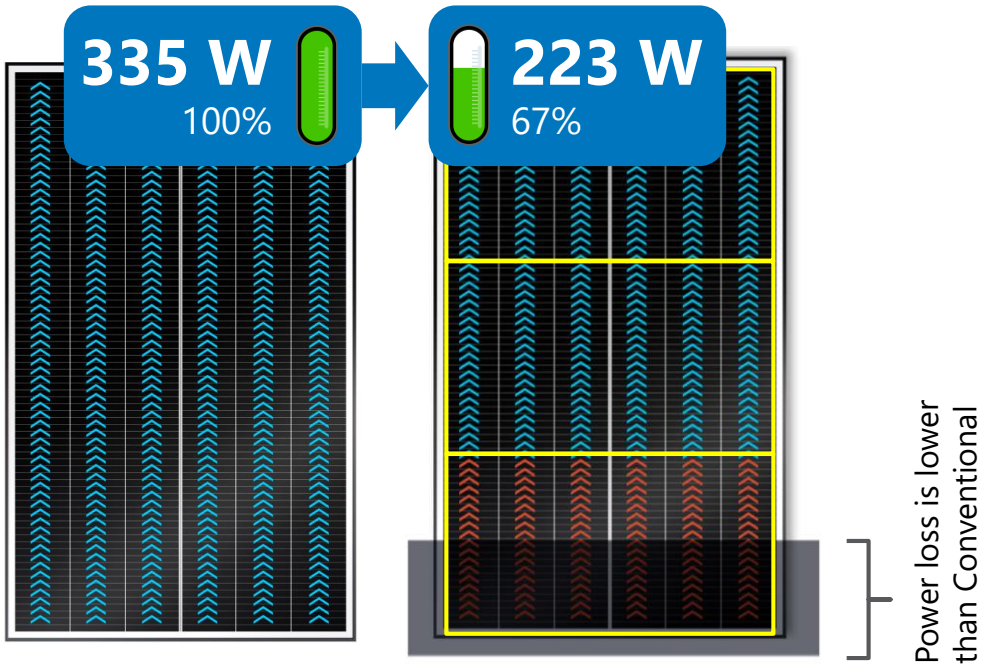

Making the conventional, exceptional

Reliability that extends the life of your panels

Up to 25% more energy in the same space over 25 years compared to Conventional Panels[1]

Backed for 25 years by SunPower's Complete Confidence Panel Warranty

1 SunPower 335 W, 19.9% efficient, compared to a Conventional Panel on same-sized arrays (280 W multi, 17% efficient, approx. 1.64 m^2), 3% more energy per watt (based on PVSim runs for avg US climate), 0.25%/yr slower degradation rate (Jordan, et. al. Robust PV Degradation Methodology and Application. PVSC 2018; Leidos Engineering. SunPower P-Series Technology Review. 2017).