

BENEFITS

The Most Energy per Rooftop

Produces more energy in an area- or weight-constrained space than any other roof system available today

Easy to Install with All-In-One Design

Solar panel, frame, and mounting system are integrated into one unit. No grounding or roof penetration needed

Roof-Preserving

Compatible with all roof membranes. Smooth, lightweight design, combined with a non-penetrating installation, protects the roof and preserves roof warranties

Long Lasting Durability

Aerodynamic design is resistant to high winds. Strong glass-filled polymer material offers long-term durability. Soiling is minimized with easy water runoff



ships nested in pallets



The SunPower™ T5 Solar Roof Tile is the most powerful solution for

area- or weight-constrained flat rooftops. The T5 is the first photovoltaic roof product to combine solar panel, frame, and mounting system into a single pre-engineered unit. The nonpenetrating tiles position SunPower highest efficiency solar panels at a 5-degree tilt, for greatest energy production.

Tiles interlock for secure, rapid installation and maximum power output. Smooth-edged, durable and lightweight polymer material designed for a 30-year life protects the roof and eliminates the need for electrical grounding. The patented design resists high winds and corrosion and is flexible to adapt to virtually any flat or low-slope roof.

Highlights

Solar Laminates	305	315
Peak Watts / ft ² (m ²) [array]	14.59 (157)	15.25 (164.2)
Average Array Weight, lbs/ft ² (kg/m ²)	2.18 (10.64)	
Wind Resistance, mph (kph)	120 (193)	

About SunPower

SunPower designs, manufactures and delivers high-performance solar electric technology worldwide. Our high-efficiency solar cells generate up to 50% more power than conventional solar cells. Our high-performance solar panels, roof tiles and trackers deliver significantly more energy than competing systems.



Electrical Data

Measured at Standard Test Conditions (STC): Irradiance 1000W/m², AM 1.5, and cell temperature 25° C

Peak Power *	P _{max}	305 W (±5%)	315 W (+5% / -3%)
Rated Voltage	V _{mpp}	54.7 V	54.7 V
Rated Current	I _{mpp}	5.58 A	5.76 A
Open Circuit Voltage	V _{oc}	64.2 V	64.6 V
Short Circuit Current	I _{sc}	5.96 A	6.14 A
Maximum System Voltage	UL	600 V	
Temperature Coefficients	Power	-0.38% / K	
	Voltage (V _{oc})	-176.6 mV / K	
	Current (I _{sc})	3.5 mA / K	
NOCT		45° C +/-2° C	
Series Fuse Rating		15 A	

Mechanical Data

Solar Laminate	SunPower™ 305 Solar Laminate, or SunPower 315 Solar Laminate
Solar Cells	96 SunPower all-back contact monocrystalline
Front Glass	SunPower 305 Solar Laminate: High transmission tempered glass SunPower 315 Solar Laminate: High transmission tempered glass with anti-reflective (AR) coating
Junction Box	IP-65 rated with 3 bypass diodes, 32 x 155 x 128 (mm)
Output Cables	1000 mm length cables / MultiContact (MC4) connectors
Frame	Polymer material with fiber reinforcement, PPE+PS
Tile Weight	47 lbs (21.3 kg)
Roof Coverage	85% N-S

Tested Operating Conditions

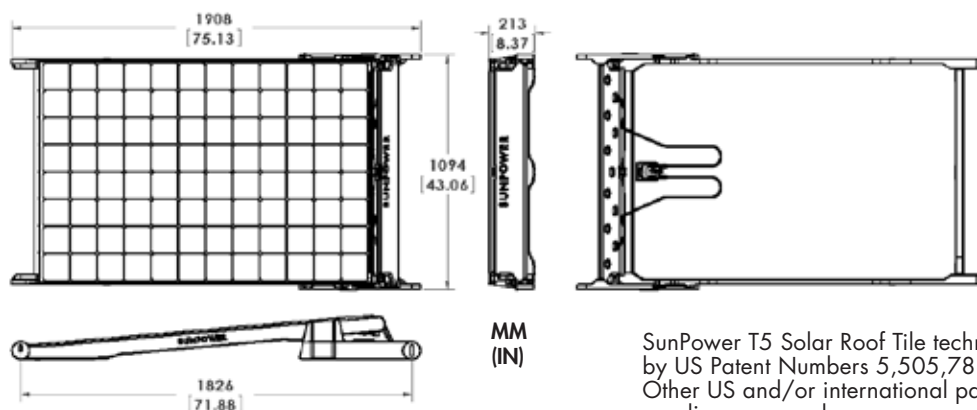
Temperature	-40° F to +185° F (-40° C to +85° C)
Max load	50 psf 245kg/m ² (2400 Pa) front and back – e.g. wind
Impact Resistance	Hail 1 in (25 mm) at 52mph (23 m/s)

*Other laminates may be available upon request

Warranties and Certifications

Warranty	25-year limited power warranty 10-year limited product warranty
Certifications	CSA listed (Tested to UL 1703), Class C Fire Rating
Built in the USA. Complies with the "Buy American" clause of The American Recovery and Reinvestment Act of 2009.	

Dimensions



SunPower T5 Solar Roof Tile technology is protected by US Patent Numbers 5,505,788 and RE 38,988. Other US and/or international patents issued or pending may apply.

CAUTION: READ SAFETY AND INSTALLATION INSTRUCTIONS BEFORE USING THE PRODUCT.

Visit sunpowercorp.com for details