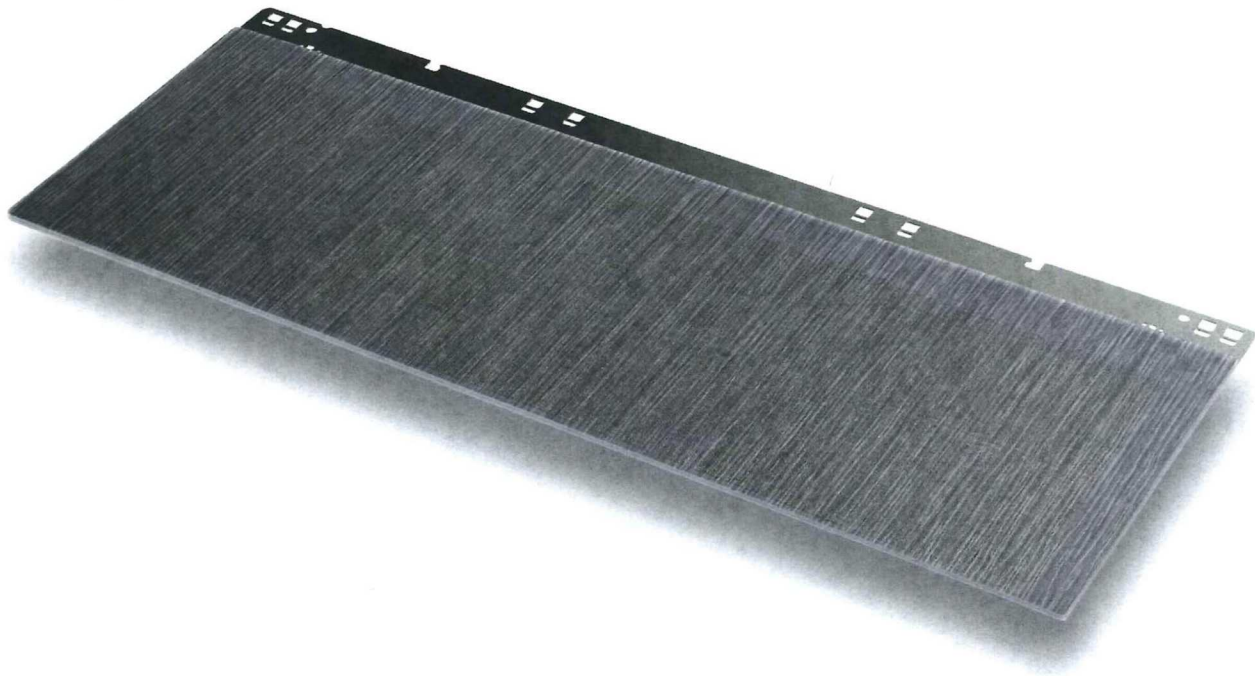


Tesla Photovoltaic Module

SR72T2 for full tear-off and overlay installations with SR-SAUL-1

Solar Roof shingle tiles are an aesthetically unparalleled solar energy solution. The combination of energy producing and non-energy tiles allows a Solar Roof to be functionally integrated and customizable to a variety of roof shapes and sizes.



Module Specifications

Electrical Characteristics

Power Class	SR72T2
Test Method	STC
Max Power, P _{max} (W)	72
Open Circuit Voltage, V _{oc} (V) per diode	14.20
Short Circuit Current, I _{sc} (A)	6.80
Max Power Voltage, V _{mp} (V)	11.30
Max Power Current, I _{mp} (A)	6.30
STC	1000 W/m², 25°C, AM 1.5 spectrum

Mechanical Loading

Wind Rating	Up to 87 m/s 194 mph
Roof Snow Load	Up to 1280 kg/m² 263 lbs/ft² surface-normal Up to 270 kg/m² 55 lbs/ft² shear
Hailstone Rating	FM 4473 Class 3 (Intertek)

Mechanical Parameters

Cells	14
Junction Box	IP68, 1 diodes
Cable	12 AWG PV Wire, 90 °C wet or dry, Long lead 315 mm 12.40 in. length Short lead 280 mm 11.02 in. length
Connector	Staubli MC4 type PV-KST4/6II-UR or type PV-KST4-EVO2 (male) and Staubli MC4 type PV-KBT4/6II-UR or type PV-KBT4-EVO2 (female)
Principal Materials	Glass, Polymers, Fiberglass and Silicon
Height From Deck	35.3 mm 1.39 in
Installed System Weight	15 kg/m² 3.1 lb/ft²
Dimension	430 mm x 1140 mm x 5 mm 16.93 in x 44.88 in x .20 in

Operation Parameters

Operational Temperature	-40 °C up to 85 °C
Power Output Tolerance	-0 / +5 %
Max System Voltage	DC 1000 V (IEC/UL) for installations above 2000m but below 3000m the system voltage is 877 V
Max Series Fuse Rating	10 A
Safety Class	Class II
Fire Rating	UL 61730 Class A

Limited Warranties

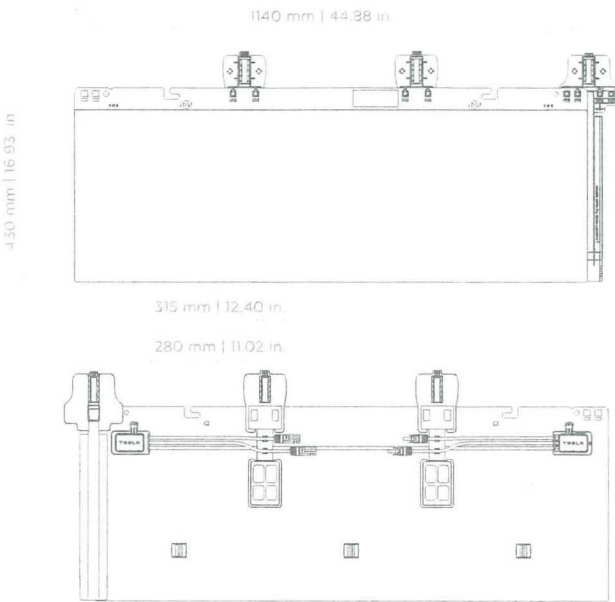
Module Warranty	25 years
The power output capacity of your Solar Roof will be at least 95% of maximum rated output power of the Solar Roof system at 5 years after install. The power output capacity will decline by no more than 0.5% per year for the following 20 years. This warranty covers the power your Solar Roof will produce under standard test conditions.	

System Certifications

UL 61730 (UL Listed)
UL 9703 (UL Listed)
UL 1741 (UL Listed)
UL 3741 (UL Listed)
UL 790 Class A (ETL Listed)
ASTM D3161 Class F (ETL Listed)
TAS100 (ETL Listed)

Temperature Rating (STC)

Temperature Coefficient of I _{sc}	0.038 % / °C
Temperature Coefficient of V _{oc}	-0.267 % / °C
Temperature Coefficient of P _{max} (W)	-0.372 % / °C



Sheathing Specifications

- Solar Roof will be installed over bare solid or closely fitted sheathing, as follows:
- DOC PS-1 compliant / exterior grade plywood: minimum 15/32" (11.9 mm) thick or
 - DOC POS-2 OSB sheathing: minimum 7/16" thick (11.1 mm) or
 - Closely-fitted sheathing boards: minimum of 3/4" (19.1 mm) thick

Solar Roof can also be installed over compatible existing roofs, as follows:

- Three-tab composition shingle, single layer
- Architectural composition shingle, single layer

Solar Roof will not be installed over raised presidential-style composition shingle, roofs with more than one layer of composition shingle, or existing non-composition shingle roof types like tiled roofs.