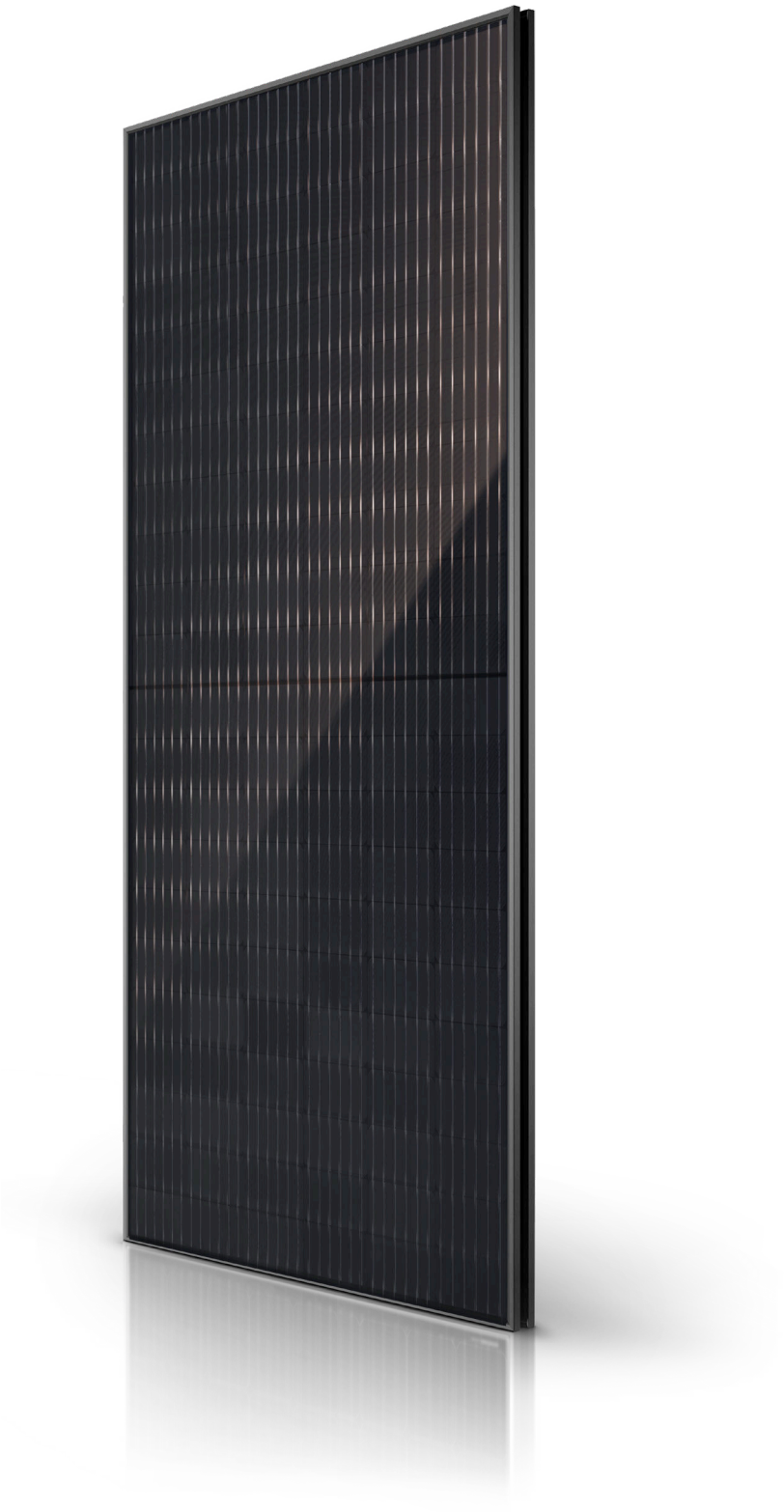
Tesla
Photovoltaic Module

T395H, T400H, and T405H



Maximum Power

The Tesla module is one of the most powerful residential photovoltaic modules available. Our system requires up to 20.9 percent fewer modules to achieve the same power as a standard system. The module boasts a high conversion efficiency and a half-cell architecture that improves shade tolerance.

Beautiful Solar

Featuring our proprietary Zep Groove design, the all-black module connects easily with Tesla ZS components to keep panels close to your roof and close to each other for a blended aesthetic with simple drop-in and precision quarter-turn connections.

Reliability

Tesla modules are subject to automotive-grade engineering scrutiny and quality assurance, far exceeding industry standards. Modules are certified to IEC / UL 61730 - 1, IEC / UL 61730 - 2 and IEC 61215.

Limited Warranty

Materials and Processing	25 years
Extra Linear Power Output	25 years

At least 98 % of nominal power during first year. Thereafter max. 0.5 % degradation per year. At least 93.5 % of nominal power up to 10 years. At least 86 % of nominal power up to 25 years.

Linear Power Warranty

Module Specifications

Electrical Characteristics

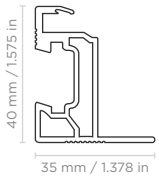
Power Class	T395H		T400H		T405H	
Test Method	STC	NMOT	STC	NMOT	STC	NMOT
Max Power, P_{MAX} (W)	395	296.3	400	300.1	405	303.8
Open Circuit Voltage, V_{OC} (V)	45.27	42.69	45.30	42.72	45.34	42.76
Short Circuit Current, I_{SC} (A)	11.10	8.95	11.14	8.97	11.17	9.00
Max Power Voltage, V_{MP} (V)	36.88	35.03	37.13	35.25	37.39	35.46
Max Power Current, I_{MP} (A)	10.71	8.46	10.77	8.51	10.83	8.57
Module Efficiency (%)	≥ 20.1		≥ 20.4		≥ 20.6	
STC	1000 W/m², 25°C, AM1.5					
NOCT	1000 W/m², 25 ± 2 °C, AM 1.5 according to IEC 60904-3 • 2800 W/m², NMOT, spectrum AM 1.5					

Temperature Rating (STC)

Temperature Coefficient of Isc	+0.04% / °C
Temperature Coefficient of V_{OC}	-0.27% / °C
Temperature Coefficient of P_{MAX} (W)	-0.34% / °C

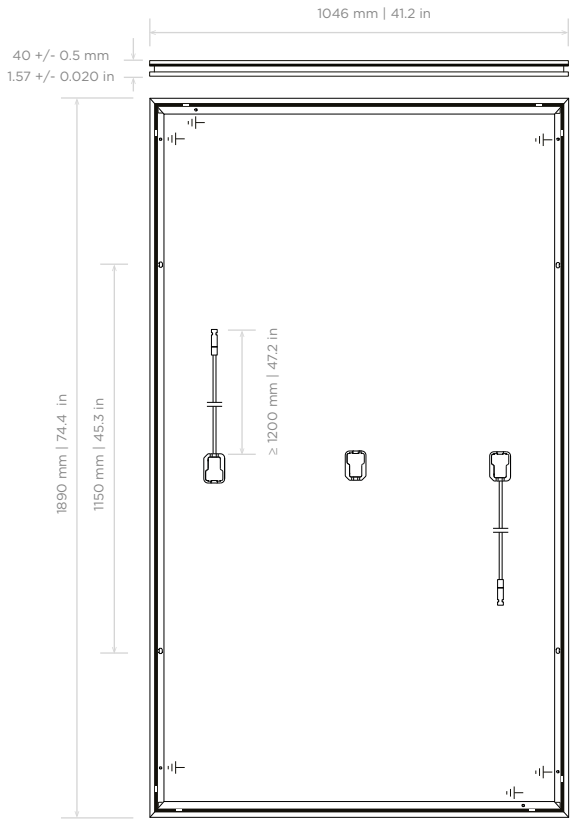
Mechanical Loading

Front Side Design Load	3600 Pa | 75 lb/ft²
Rear Side Design Load	2660 Pa | 55 lb/ft²
Hailstone Test	25 mm Hailstone at 23 m/s



Mechanical Parameters

Cell Orientation	132 (6 x 22)
Junction Box	IP68, 3 diodes
Cable	4 mm² | 12 AWG, 1200 mm | 47.2 in. Length
Connector	Staubli MC4 or MC4 compatible
Front Cover	0.13 in (3.2 mm) thermally pre-stressed glass
Frame	Black Anodized Aluminum Alloy
Weight	23.5 kg | 51.8 lb
Dimension	1890 mm x 1046 mm x 40 mm 74.4 in x 41.2 in x 1.57 in



Operation Parameters

Operational Temperature	-40°C up to +85°C
Power Output Tolerance	-0 /+5 W
V_{OC} & I_{SC} Tolerance	+/- 3%
Max System Voltage	DC 1000 V (IEC/UL)
Max Series Fuse Rating	20 A
NOCT	45.7 +/- 2°C
Safety Class	Class II
Fire Rating	UL 61730 Type 2