

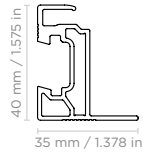
# Tesla Photovoltaic Module

T395H, T400H, and T405H

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The Tesla module is one of the most powerful residential photovoltaic modules available and exceeds industry engineering and quality standards. Featuring our proprietary Zep Groove design, the all-black module mounts close to your roof for a minimalist aesthetic. Modules are certified to IEC / UL 61730 - 1, IEC / UL 61730 - 2 and IEC 61215.



# Module Specifications



## Electrical Characteristics

Power Class	T395H		T400H		T405H	
	STC	NMOT	STC	NMOT	STC	NMOT
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/m <sup>2</sup> , 25°C, AM1.5					
NOCT	1000 W/m <sup>2</sup> , 25 ± 2 °C, AM 1.5 according to IEC 60904-3 • 2800 W/m <sup>2</sup> , NMOT, spectrum AM 1.5					

## Mechanical Loading

Front Side Test Load	6120 Pa   128 lb/ ft <sup>2</sup>
Rear Side Test Load	6120 Pa   128 lb/ ft <sup>2</sup>
Front Side Design Load	4080 Pa   85 lb/ft <sup>2</sup>
Rear Side Design Load	4080 Pa   85 lb/ft <sup>2</sup>
Hailstone Test	25 mm Hailstone at 23 m/s

## Mechanical Parameters

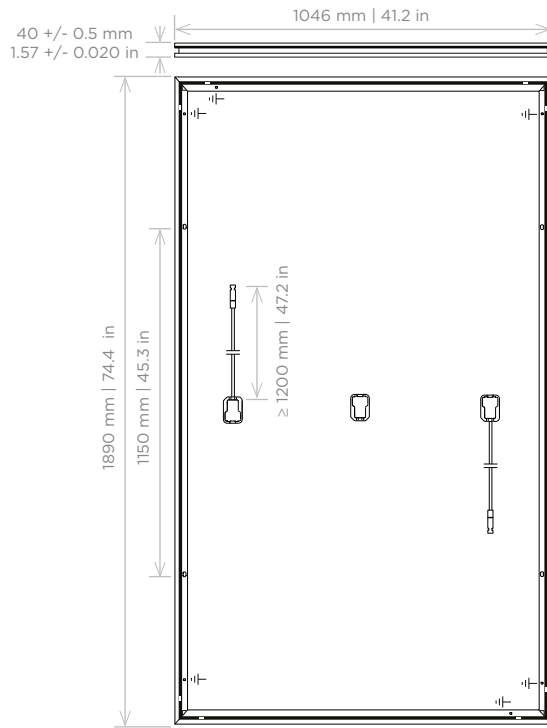
Cell Orientation	132 (6 x 22)
Junction Box	IP68, 3 diodes
Cable	4 mm <sup>2</sup>   12 AWG, 1200 mm   47.2 in. Length
Connector	Staubli MC4 or MC4 compatible
Front Cover	0.13 in (3.2 mm) thermally pre-stressed glass
Frame	Black Anodized Aluminum Alloy
Weight	23.5 kg   51.8 lb
Dimension	1890 mm x 1046 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

## Temperature Rating (STC)

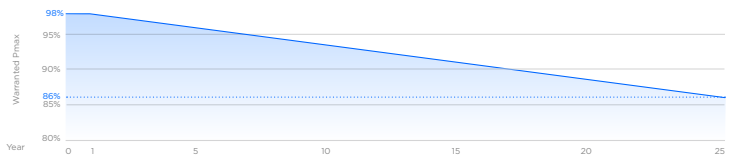
Temperature Coefficient of $I_{SC}$	+0.04% / °C
Temperature Coefficient of $V_{OC}$	-0.27% / °C
Temperature Coefficient of $P_{MAX}$ (W)	-0.34% / °C



## Linear Power Warranty

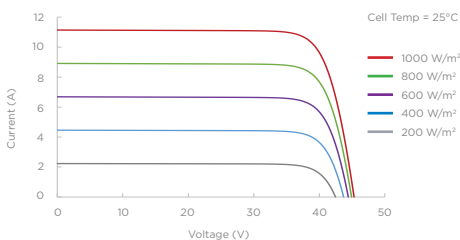
Materials and Processing	25 years
Extra Linear Power Output	25 years

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.

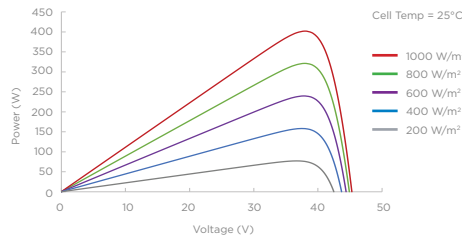


## IV Curves

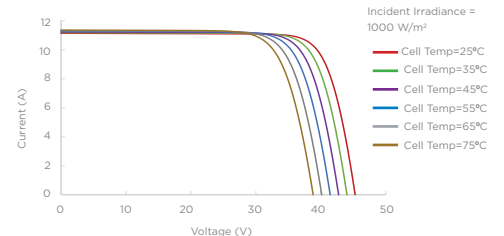
Current vs. Voltage



Power vs. Voltage



Current vs. Voltage



# TESLA

T400H

Maximum power (Pmax)	400 W $\pm 5\%$ OW
Open-circuit voltage (Voc)	45.30 V $\pm 5\%$
Short-circuit current (Isc)	11.14 A $\pm 5\%$
Operating voltage (Maximum Power Voltage, Vmp)	37.13 V
Current at rated operating voltage (Maximum Power Current, Imp)	10.77 A
Maximum system voltage	1000V
Electrical ratings at STC	1000 W/m <sup>2</sup> , 25°C; AM = 1.5
Module Fire Class C.	See system installation manual for system-level fire rating
Module Fire Type	Type 2
Maximum Series Fuse	20 A
Dimensions	1890mm x 1046 mm x 40mm

For field connections, use minimum 12 AWG wires insulated for a minimum of 90°C, rated for wet conditions and resistant to ultraviolet radiation (where exposed).

Refer to safety and installation instructions prior to use.

Module produces electricity when exposed to light. Do not connect or disconnect under electrical load.

Avertissement-électrique Danger Ce module produit de l'électricité en exposant à la lumière. Suivez toutes les précautions applicables à la sécurité électrique.

Made in Korea

[www.tesla.com](http://www.tesla.com)



**WARRANTY VOID IF NON-ZEP-COMPATIBLE HARDWARE IS ATTACHED TO GROOVE IN MODULE FRAME**