



# Solar Panel Product Information

# Produce Clean Energy

## Sleek and Durable

With a low profile and simple design, panels stay close to your roof and close to each other for a minimal aesthetic.

## Built to Last

Solar panels maintain their production levels at high temperatures with minimal degradation for decades to come.

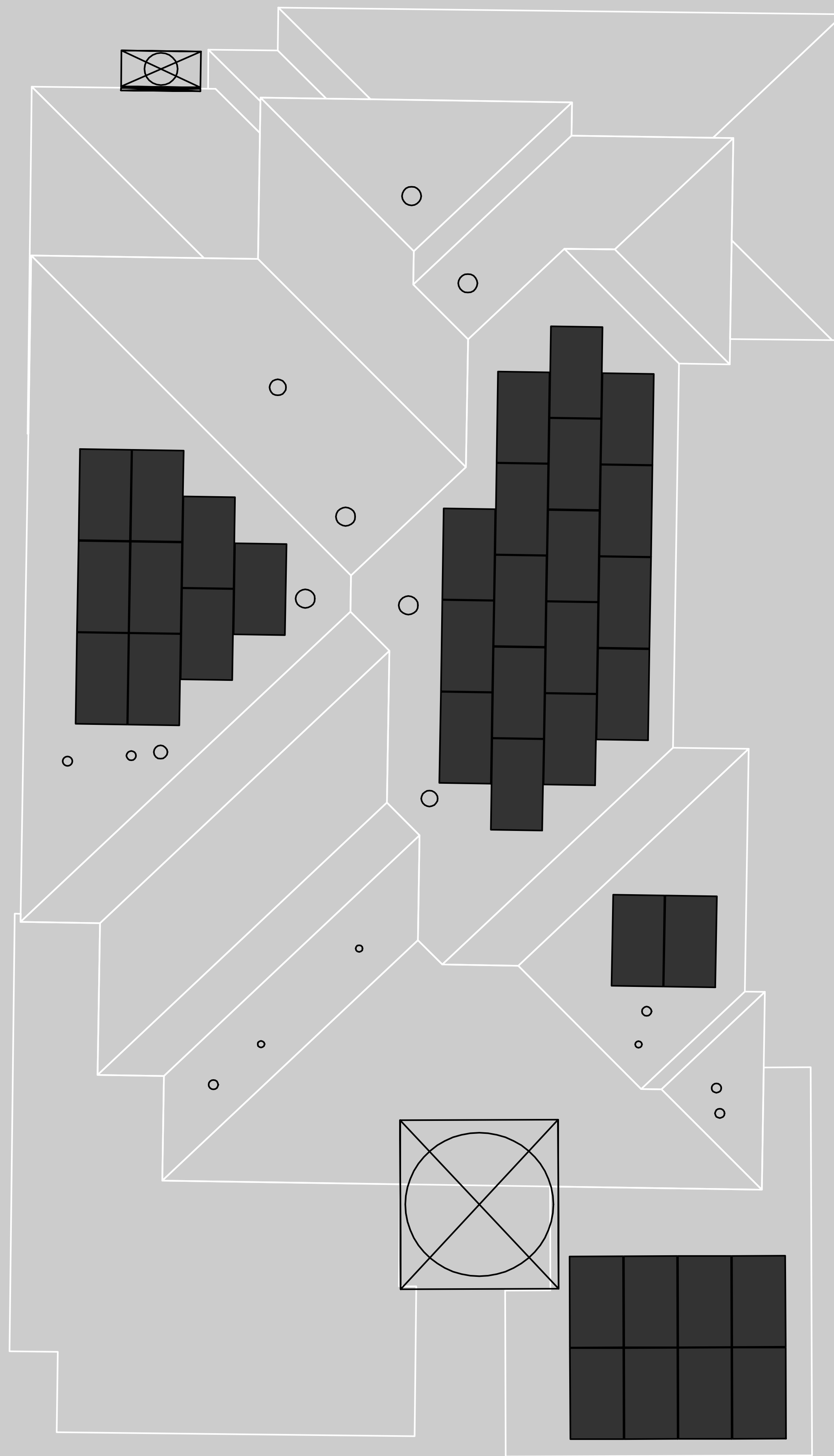
## Clean Energy Generation

Solar panels can reduce your carbon emissions and lower your reliance on the grid with clean renewable energy.

## Backup Protection

Combine with Powerwall to store the energy you produce, making it available anytime—at night or during an outage.





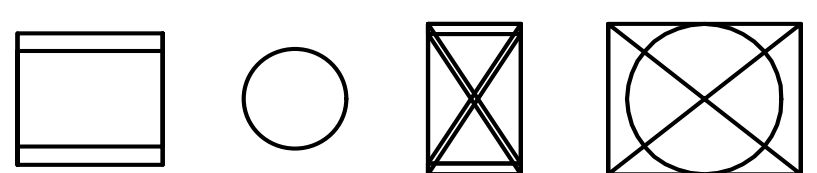
Front Of House

### LEGEND

Solar Panels



Rooftop vents, skylights,  
chimneys, and HVAC



TESLA

# Design Summary

**Raveling Residence**  
4803 March Ave  
Dallas, TX 75209

## Solar Size

Ordered	Designed
12.24 kW	12.24 kW
<b>Number of Solar Panels: 36</b> <b>Estimated Year 1 Production: 15645.44 kWh</b> <b>Estimated Year 1 Offset: 60%</b> <b>No Change:</b> Design matches the ordered system size.	

## Powerwall

Ordered	Designed
0 Powerwall(s)	0 Powerwall(s)
To learn more about the benefits of adding a Powerwall to your system, visit <a href="https://tesla.com/powerwall">tesla.com/powerwall</a> .	

### Roof & Site Repairs

We always attempt to quote one inclusive price whenever possible.

As with all construction projects, in some cases there may be additional work that can affect the project cost. If we discover items that are beyond the scope already quoted to you, a new price will be presented with no obligation to move forward.

### Electrical Upgrades

Your main electrical panel provides the connection to the electrical grid and distributes power to your home.

There may be electrical upgrades required to your home. This can include a replacement of your existing electrical panel, an upgrade to your utility service or trenching to run new connections between detached structures.

This is determined from the photos provided during your home assessment. The price of electrical upgrades, when necessary, typically range between \$2,000 and \$5,000.

# Installation Overview

Your solar agreement includes all hardware and installation costs, including a step-by-step guide of what you can expect.

## Installation Day Checklist

- Obtain approval from your Homeowner's Association (HOA) if necessary.
- Ensure no other contractors or workers are on site during your solar installation.
- Ensure driveway is clear and your electrical panel is accessible.
- Contact Tesla if work has been done to your home since you ordered your system.
- Ensure someone 18 years or older is home for the first hour of installation.
- Please keep any pets away from the installation area for their safety.
- Keep your Wi-Fi network and password on hand.

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## Arrival & Preparation

- Crew leads greet you and discuss where equipment will be located based on preference and feasibility.
- Cones and caution tape are placed around your home.
- Ladders are placed in key areas.

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## Installation

- Solar panels are installed quickly.
- If installing Powerwall, you might lose power for a few hours.

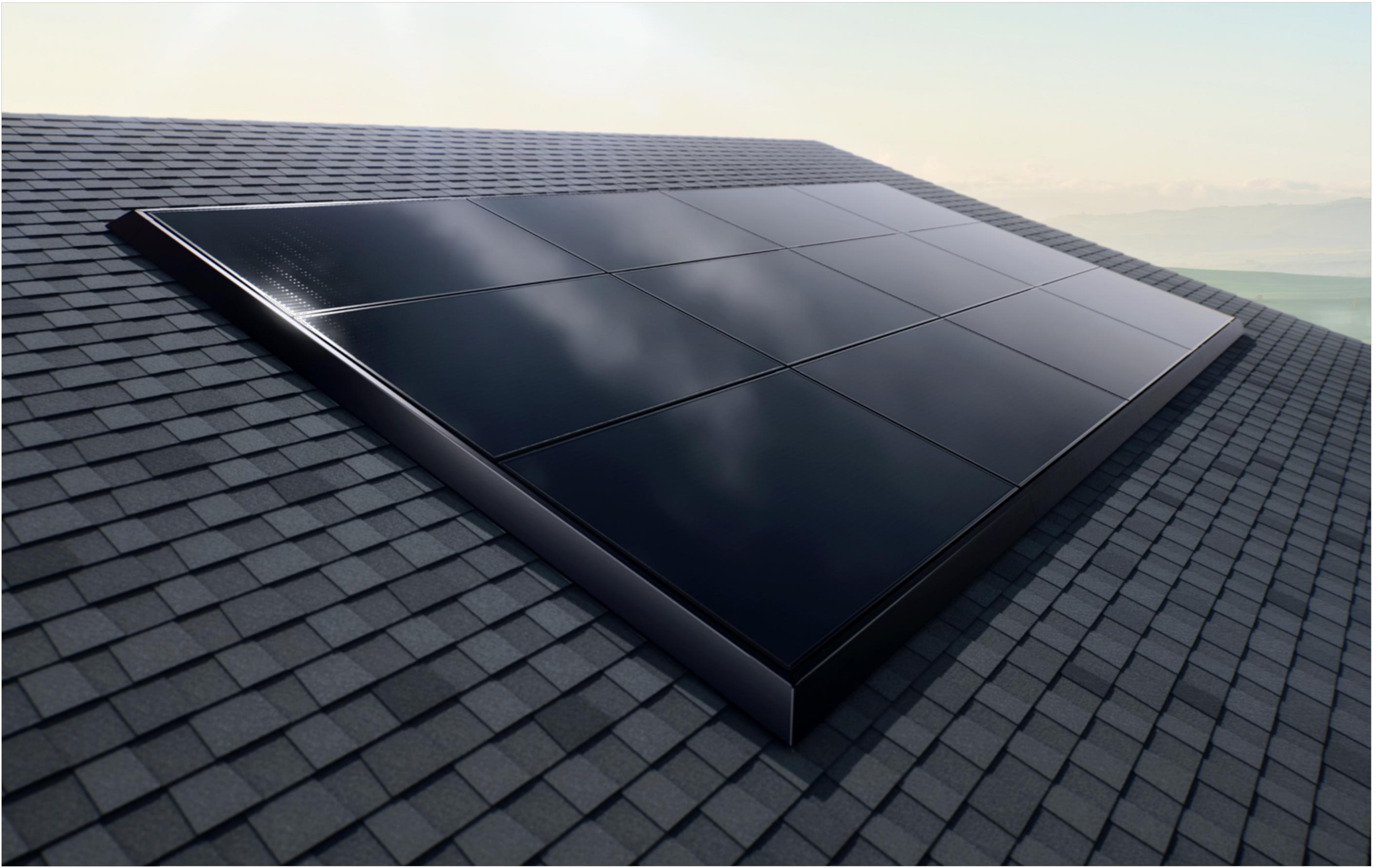
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## Power On

- Crew lead walks you through your new system, including the Tesla app.
- The team cleans up and departs

# Next Steps

- Step 1**                      **Order Online**  
We recommend a solar system that maximizes your savings based on your average electricity usage.
- Step 2**                      **Virtual Home Assessment (Optional)**  
Log into your Tesla Account to answer questions about your home, finalize your design and track your installation progress.
- You Are Here** →        **Design**  
We create your design from aerial imaging and 3D modeling along with your feedback.
- Permit**  
We work with your city to file permits for your system. Depending on your location, this may take one to five weeks.
- Step 3**                      **Installation**  
When your system is ready, you can select a date. Installation is typically finished in one day.
- Inspection**  
We work with your local city to arrange for an inspection after installation is complete.
- Utility Approval**  
We work with your local utility company to get permission to operate your system. Depending on your location, this may take one to six weeks.
- Step 4**                      **Power On**  
Most utilities require an interconnection agreement before you can turn on the system. We let you know when you have permission to activate your system.



## Service & Warranty

With Tesla, your home and energy products are covered by a comprehensive warranty. For full details and exclusions, please refer to your purchase agreement in the Tesla Account.

Solar Panel

**25** yrs.

Inverter

**10** yrs.

If you need to make a claim under these warranties, we will process your claim and perform any related labor at our cost.





powered by  
**Q.ANTUM /DUO**

# Q.PEAK DUO BLK-G6+ /SC

330-345

ENDURING HIGH PERFORMANCE



**Q.ANTUM TECHNOLOGY: LOW LEVELIZED COST OF ELECTRICITY**  
Higher yield per surface area, lower BOS costs, higher power classes, and an efficiency rate of up to 19.5%.

**INNOVATIVE ALL-WEATHER TECHNOLOGY**  
Optimal yields, whatever the weather with excellent low-light and temperature behavior.

**ENDURING HIGH PERFORMANCE**  
Long-term yield security with Anti-LD and Anti-PD Technology<sup>1</sup>, Hot-Spot Protect and Traceable Quality Via Q™.

**ZEP COMPATIBLE<sup>SM</sup> FRAME DESIGN**  
High-tech black Zep Compatible<sup>SM</sup> frame, for improved aesthetics, easy installation and increased safety.

**A RELIABLE INVESTMENT**  
Inclusive 25-year product warranty and 25-year linear performance warranty<sup>2</sup>.

**STATE OF THE ART MODULE TECHNOLOGY**  
Q.ANTUM DUO combines cutting edge cell separation and innovative wiring with Q.ANTUM Technology.

<sup>1</sup>HTP test conditions according to IEC 61215:2016, Annex G1-1 (900V, 180V)  
<sup>2</sup>See data sheet or see for further information

THE IDEAL SOLUTION FOR:

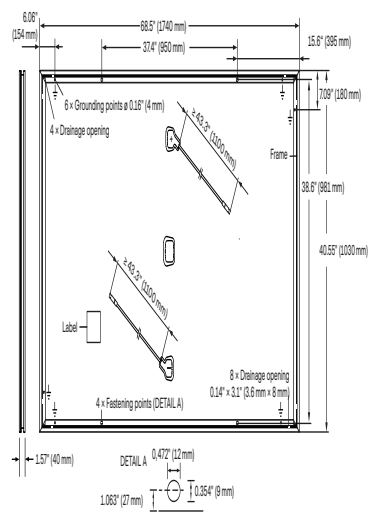


Engineered in Germany



## MECHANICAL SPECIFICATION

Format	885 x 426 x 17 (including frame) (350 x 220 x 40mm)
Weight	4.74kg (10.45lb)
Front Cover	0.13m (5.2mm) thermally pre-stressed glass with anti-reflector technology
Back Cover	Composite film
Frame	Black anodized aluminum
Cell	6 x 20 monocrystalline Q.ANTUM solar half cells
Junction Box	230-330-128-238-159-07m (63.10 x 32.40 x 15.58mm) Protection class IP67, with bypass diodes
Cable	4mm <sup>2</sup> Solar cable (1 x 43.5m (142.00mm)) (1 x 43.5m (142.00mm))
Connector	Shaded MCA-PE6

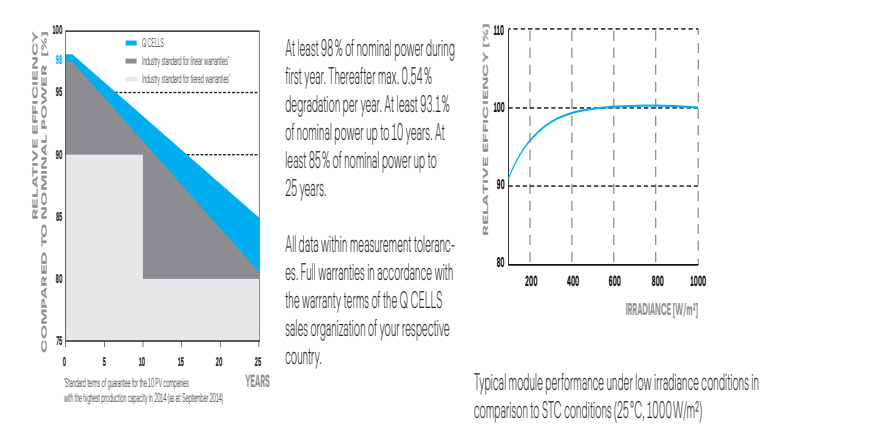


## ELECTRICAL CHARACTERISTICS

POWER CLASS	330	335	340	345	
MINIMUM PERFORMANCE AT STANDARD TEST CONDITIONS, ETC <sup>1</sup> (POWER TOLERANCE ±0.3W (-0.0W))					
Power at MPP	$P_{MPP}$ [W]	330	335	340	345
Short Circuit Current	$I_{sc}$ [A]	10.42	10.47	10.52	10.56
Open Circuit Voltage	$V_{oc}$ [V]	40.25	40.42	40.66	40.92
Current at MPP	$I_{mp}$ [A]	9.92	9.97	10.02	10.07
Voltage at MPP	$V_{mp}$ [V]	33.29	33.82	33.94	34.25
Efficiency <sup>2</sup>	$\eta$ [%]	±19.4	±19.7	±19.0	±19.3
MINIMUM PERFORMANCE AT NORMAL OPERATING CONDITIONS, NMOT <sup>3</sup>					
Power at MPP	$P_{MPP}$ [W]	2470	2507	2545	2582
Short Circuit Current	$I_{sc}$ [A]	8.39	8.43	8.48	8.52
Open Circuit Voltage	$V_{oc}$ [V]	37.66	38.10	38.34	38.59
Current at MPP	$I_{mp}$ [A]	7.90	7.94	7.99	7.93
Voltage at MPP	$V_{mp}$ [V]	31.66	32.57	32.27	32.57

<sup>1</sup>Measurement tolerances:  $P_{MPP}$  ±1%,  $I_{sc}$ ,  $V_{oc}$  ±5% at STC, 1000W/m<sup>2</sup>, 25°C, AM 1.5 according to IEC 60904-2-100 (W/m<sup>2</sup> MNOCT, spectrum AM 1.5)

## Q CELLS PERFORMANCE WARRANTY



TEMPERATURE COEFFICIENTS					
Temperature Coefficient of $I_{sc}$	$\alpha$ [1/K]	+0.04	Temperature Coefficient of $V_{oc}$	$\beta$ [1/K]	-0.27
Temperature Coefficient of $P_{MPP}$	$\gamma$ [1/K]	-0.38	Normal Module Operating Temperature	MNOCT [°C]	109-144 (±1°C)

## PROPERTIES FOR SYSTEM DESIGN

Maximum System Voltage $V_{sys}$ [V]	1000 (IEC) / 1000 (UL)	Protection Class	I
Maximum Series Fuse Rating [A DC]	20	Fire Rating based on ANSI/VUL 1703	C (IEC) / TYPE 2 (UL)
Max. Design Load, Push / Pull [kN]	50 / 240 (P) / 50 / 240 (T) [kN]	Permitted Module Temperature on Continuous Duty	-40°F up to 185°F (-40°C up to 85°C)
Max. Test Load, Push / Pull [kN]	75 / 360 (P) / 75 / 360 (T) [kN]		

<sup>2</sup>See Installation Manual

## QUALIFICATIONS AND CERTIFICATES

UL 1703, CE compliant, IEC 61215:2016, IEC 61701:2016, Application Class I, U.S. Patent No. 8,980,205 (solar cable)



**Note:** Installation instructions must be followed. See the installation and operating manual or contact our technical service department for further information on approved installation and use of this product.

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