

# **Tesla solar inverter spec sheet**





## Overview

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What is Tesla Solar inverter?

Tesla Solar Inverter offers improved aesthetics, reliability and native integration with the Tesla ecosystem for both Solar Roof and solar panel systems. DC power coming from solar modules is inverted to AC power by Tesla Solar Inverter for home consumption. Like Powerwall+, Powerwall 3 features an integrated solar inverter.

Does Tesla have an inverter spec sheet?

Tesla has published select data about the inverter on its website, rather than a full spec sheet. It is also not entirely clear what the app will be capable of in terms of system integration and optimization.

Does Tesla Solar inverter have a site controller?

For full compliance to IEEE 1547-2018 and IEEE 1547.1-2020 GW.2.0 or SMC shall be used with Solar Inverter. The following specifications reflect Tesla Solar Inverter with Site Controller (Tesla P/N 1538000-45-y). For specifications on Tesla Solar Inverter without Site Controller, see Tesla Solar Inverter and Solar Shutdown Device datasheet.

What is the warranty on a Tesla Solar inverter?

CEC Efficiency 98.0% at 240 V Safety Integrated rapid shutdown, arc fault and ground fault protection Certifications Certified to North American safety and EMI standards Warranty 12.5 years Visit the Owner Documents page for additional information on Tesla Solar Inverter, including the Owner's Guide, technical specifications and product warranty.

What are the sizes of Tesla Solar inverters?

The Tesla solar inverter is available in two sizes: 3.8 kW and 7.6 kW. These models are designed for standard solar system sizes. Each inverter has four maximum power point trackers (MPPT) which allows you to add as many as



four other independent inverters to meet the output of your solar system.

What is the maximum system voltage allowed by Tesla Solar inverter?

6 Maximum System Voltage is limited by Tesla Solar Inverter to 600 V DC. 7 Maximum Disconnect Voltage is the maximum voltage allowed across each MCI in the open position (Rapid Shutdown Initiated). An individual MCI-2 has a voltage rating of 165V but in combination (connected in the same string) their voltage ratings are additive.



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### Tesla Solar Inverter - 7.6 kW

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### [Solar Panel Owner Documents , Tesla Support](#)

Registering Your Tesla Solar Inverter Connecting to Tesla Solar Inverter Turning On Your System Monitoring Your System Understanding System Performance Troubleshooting Your System Get Help and Schedule Service What to Know ...



### [Tesla Solar Inverter - 7.6 KW - Clean Power Store](#)

Revolutionizing residential solar energy, the Tesla Solar Inverter delivers unparalleled performance and intelligent design. This 7.6 kW powerhouse transforms sunlight into efficient home electricity with cutting-edge technology ...

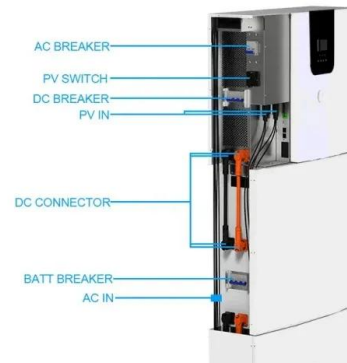


### Design, Installation, and Operation of the Tesla 7.6kW ...

Design, Installation, and Operation of the Tesla 7.6kW Inverter 1538000-45While the inverter was installed along with the panels, I thought a



dedicated webpage about that would be helpful.  
Note that Tesla uses a single "string" inverter (at  
...



### [Install Mid-Circuit Interrupters in PV Array](#)

The Tesla Mid-Circuit Interrupter (MCI) is used within PV strings and arrays to meet the Rapid Shutdown requirements of NEC Article 690.12. For information on how the Tesla MCI functions with Tesla Solar Inverter as a Photovoltaic Rapid  
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### [Powerwall Owner Documents , Tesla Support](#)

Registering Your Tesla Solar Inverter Connecting  
to Tesla Solar Inverter Turning On Your System  
Monitoring Your System Understanding System  
Performance Troubleshooting Your System Get  
Help and Schedule Service What to Know ...



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