

Tesla solar inverter data sheet

Product Details





Overview

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.

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.

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 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.

What happens if a solar array is paired with a Tesla Solar inverter?

When paired with the Tesla Solar Inverter, solar array shutdown is initiated by



any loss of AC power. Tesla Solar Roof and Tesla/Zep ZS Arrays using the following modules are certified to UL 3741 and UL 1741 PVRSA when installed with the Tesla Solar Inverter and Solar Shutdown Devices.

Are Tesla inverters better than SolarEdge?

This makes Tesla inverters ideal for uniform installations with minimal shading but less suitable for complex roof layouts or situations requiring granular performance tracking. Competitive Efficiency with Room for Improvement: At 97.5% CEC efficiency, Tesla inverters meet industry standards but trail leaders like SolarEdge (99% efficiency).



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Addendum: UL 3741 Compliance with Tesla MCIs, Powerwall, and Solar Inverter

UL 3741 Systems using Tesla MCIs in combination with Powerwall 3, Powerwall+, or Tesla Solar Inverter WARNING: Where it is allowable to install only (1) MCI per string, MCI-1 must be used.

[TESLA Infinity HLE 8kW PV 11kW Dual Output & Dual ...](#)

This document provides specifications for three different on-grid inverter models with energy storage from Infinity. The 8kW model supports



single phase input of up to 11kW, 8kW rated output power, 8kW maximum charging power, 4.5" ...



[Powerwall Owner Documents](#) , [Tesla Support](#)

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