

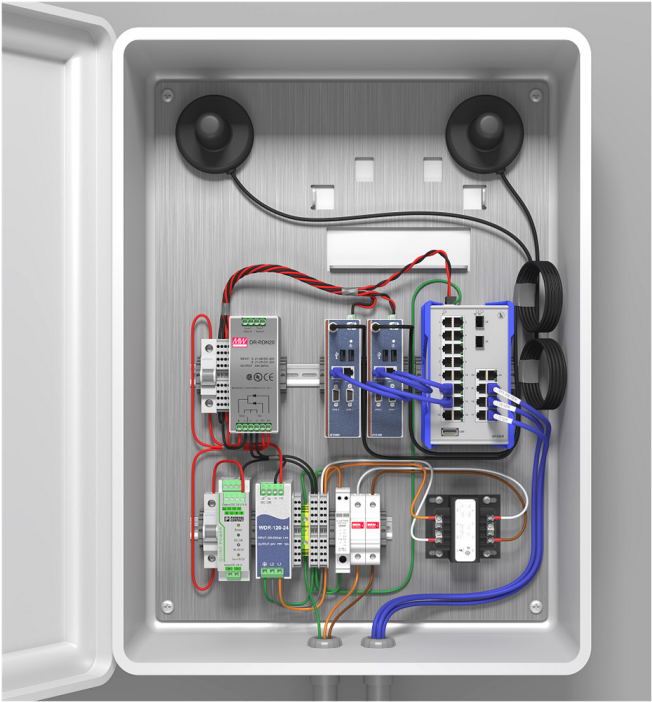
STANDARD TESLA SYSTEM CONTROLLER ENCLOSURE

The **Standard Tesla System Controller Enclosure** hosts the **Standard Tesla System Controller**, the site-level interface that controls non-residential Tesla battery energy storage systems and commercial solar projects. The Standard Tesla System Controller interacts with each inverter block in a site, collects feedback data, and runs algorithms to optimize system operations. In addition, the Standard Tesla System Controller Enclosure is designed with built-in redundancy at the Standard Tesla System Controller level.

The Standard Tesla System Controller:

- Communicates with overall systems through each inverter or other access point to control the entire energy site
- Hosts the control algorithm that dictates advanced charge and discharge functions
- Is the single point of interaction with external parties
- Supports a number of site configurations, including grid-tied and microgrid

Tesla offers a 10-year warranty at no additional cost. Extensions are also available under certain conditions.



Fully Loaded Standard Tesla System Controller Enclosure

ELECTRICAL

Nominal Input Voltage Range	120–480 VAC
Nominal Frequency	50 or 60 Hz
Operating Power Consumption	100 W maximum
Overvoltage Protection	Category III

COMMUNICATIONS

Protocol	Modbus TCP DNP3 Rest API
Connectivity	Ethernet Cellular

MECHANICAL AND MOUNTING

Enclosure	IP67 / NEMA 4
Dimensions	Width: 560 mm (22 in) Depth: 255 mm (10 in) Height: 724 mm (29.2 in)
Weight	22.4 kg (49.4 lbs)
Operating Ambient Temperature	–30°C to 50°C (–22°F to 122°F)
Maximum Altitude	3000 m (9842 ft)
Relative Humidity	100% condensing, wet location rated

REGULATORY

Safety Certifications	UL 61010-1 CSA-22.2 IEC-61010-1
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