

V4 battery cabinet





Overview

What is a Tesla V4 cabinet?

Yesterday, Tesla unveiled the V4 Cabinet for the V4 Superchargers. These new cabinets are engineered to utilize maximum energy from the V4 Supercharger stalls to enable even faster charging for Tesla and other EVs. Video: Tesla unveils the new Supercharger V4 Cabinet to boost EV charging.

How efficient is a V4 cabinet?

V4 Cabinet has a 2% efficiency improvement. Superchargers already deliver over 5 TWh/year, 100 GWh/year in waste heat that can be saved. Screenshot: Tesla Cybertruck to unlock 500 kW charging speed using the V4 chargers.

What is the difference between V3 & V4 cabinet?

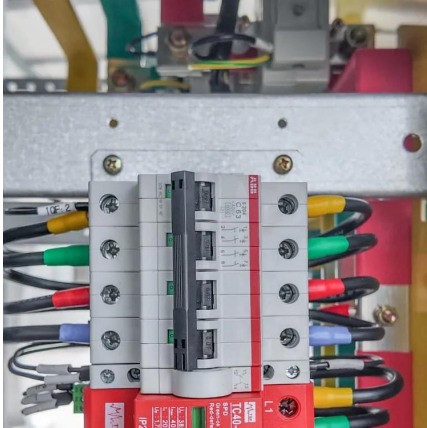
Faster charging: Supports 400V-1000V vehicle architectures, including 30% faster charging for Cybertruck. S3XY vehicles enjoy 250kW charge rates they already experience on V3 Cabinet — charging up to 200 miles in 15 minutes.
Faster deployments: V4 Cabinet powers 8 posts, 2X the stalls per cabinet.

How much power does a V4 cabinet have?

Although the V4 Cabinet is capable of 1.2MW (1200kW), Max only mentioned 1MW for 8-stall distribution. He wrote on X: Posts can peak up to 500kW for cars, but we need less than 1MW across 8 posts to deliver maximum power to cars 99% of the time. No more DC busbar between cabinets.



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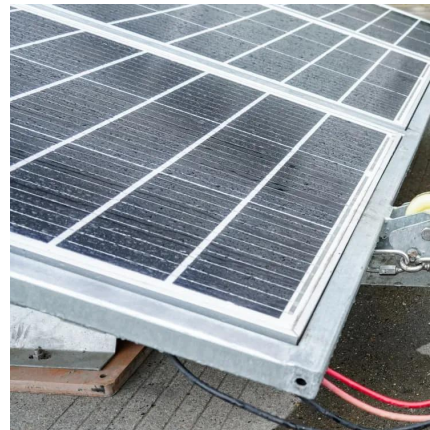


[Tesla's Fourth-Generation Supercharger Cabinet Launches ...](#)

Nov 18, 2024 · Tesla says the V4 cabinet supports charging on vehicles with battery packs rated for between 400 volts and 1000 volts. That means charging speeds of up to 500 kW on cars ...

[Tesla to start deploying V4 Superchargers in China in 2025](#)

Jan 1, 2025 · Tesla opened the first V4 Superchargers, the company's fastest and most powerful EV charging device to date, in its US home market in October 2023. Powered by the V4 ...



[Tesla launches V4 Superchargers in China, opens network to ...](#)

Jun 30, 2025 · First introduced in the Netherlands in March 2023, the V4 Supercharger is Tesla's fastest and most powerful charging equipment to date. The new cabinet system delivers up to ...

[Tesla Unveils V4 Supercharger Cabinet with Up To 500kW ...](#)

Nov 14, 2024 · Tesla unveiled on Thursday its new V4 Supercharger cabinet, designed to deliver ultra-fast charging speeds, capable of delivering up to 500 kilowatts for passenger

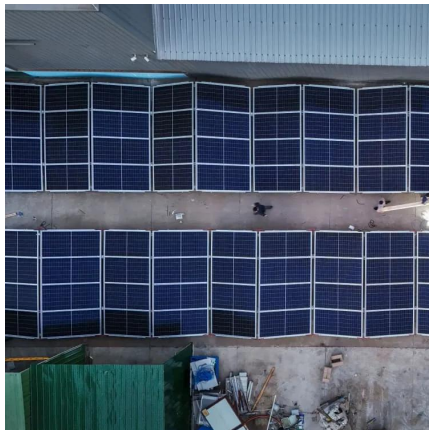


vehicles ...



[Tesla officially launches V4 cabinet, doubles supercharging ...](#)

Nov 15, 2024 · Tesla reveals details of upcoming V4 supercharger cabinets which will deliver 500 kW of charging for cars while making deployments faster.



[Tesla announces 500 kW charging as it finally delivers V4](#)

Nov 15, 2024 · Tesla has announced that it will finally deliver 500 kW charging as it is about to install its long-awaited V4 Supercharger cabinets. The rollout of Supercharger V4 has been a ...



[Tesla to soon begin V4 Supercharger Cabinets deployment ...](#)

Jan 1, 2025 · The V4 Supercharger Cabinet is the latest and most powerful Tesla charging device. It supports 400V - 1000V architectures and is easier and faster to deploy, according to the US ...



[Tesla V4 Cabinet to unlock Cybertruck 500kW and Semi ...](#)

Nov 15, 2024 · Tesla (TSLA) unveils its next-generation V4 Cabinet that powers the V4 Superchargers for 500kW charging speeds for the Cybertruck and 1.2MW for the Semi truck.



[Tesla's V4 Supercharger Cabinet Promises Up To 500 kW ...](#)

Nov 15, 2024 · The V4 Cabinet represents a substantial leap forward from the previous V3 generation, which was limited to a maximum of 250 kW per stall. The new cabinet design ...

[Tesla V4 Supercharger Cabinet Specs Emerge](#)

Mar 2, 2025 · Tesla's upcoming next-generation power electronics cabinet will enter the market in Q3 2025, but the Tesla V4 Supercharger cabinet specs have already emerged.



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