

A-Core Container

The new energy charging battery cabinet makes a sound



Overview

It is quite normal for new energy vehicles' charging batteries to make noises. This noise is usually caused by the chemical reactions inside the battery and the flow of current. Are battery energy storage systems causing noise?

Image: Wartsila. The noise of battery energy storage system (BESS) technology has “exploded” as a concern in the last six months, an executive from system integrator Wartsila ES&O said. BESS units primarily emit noise from their cooling systems, but balance of system (BOS) components like inverters and transformers also produce noise emissions.

Why do EVs make noise when charging?

Vehicle-Specific Noise Some EVs produce sounds while charging due to their internal cooling systems or battery management operations. For instance, the cooling fans of a vehicle's battery pack might activate, adding to the overall noise level. **Ambient and Human Activity** Charging stations often double as rest stops or retail hubs.

What causes ambient noise at charging stations?

The combination of conversations, vehicle movement, and other human activities contributes to the ambient noise environment. **User Experience:** Noise at charging stations can detract from the user experience, making what should be a calm and eco-friendly activity feel intrusive or unpleasant.

Are charging stations noisy?

While these facilities play a critical role in the transition to greener transportation, a less-discussed issue has started to emerge: noise at charging stations. Unlike the stereotypical silent EV experience, some charging stations produce surprising levels of noise, raising concerns among users and nearby communities.

What sounds are emitted from a battery enclosure?

Sound from inlet and outlet airflow vents, as well as fans and pumps are emitted from each battery enclosure. The sounds from these systems are similar to rooftop heating ventilation and cooling units in residential and commercial buildings.

How can charging equipment manufacturers design a quieter cooling system?

Innovative Cooling Solutions Charging equipment manufacturers can design quieter cooling systems by optimizing fan speeds, using sound-damping materials such as GPDS, (reduces mid-range and low frequency noise), or adopting advanced liquid cooling technologies.

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