



LLSE CONTAINERS

# The importance of fast charging for outdoor power supplies





## Overview

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What is the efficiency of fast charging equipment?

Additionally, the efficiency of fast charging equipment is often strongly dependent on temperature, with power conversion efficiencies of 50 kW chargers reported at up to 93% and as low as 39% for operation at 25 °C and -25 °C, respectively, primarily due to the derating of power levels requested by BMSs at lower temperatures .

What are fast charging standards?

Fast charging standards like USB Power Delivery (USB PD), Qualcomm Quick Charge, and Samsung Adaptive Fast Charging make this process seamless, ensuring your device can handle the extra power safely. Each standard has unique specifications and safety features to prevent overcharging or overheating.

Why is fast charging a good idea?

Advances in battery technology mean today's fast chargers are more efficient and safer than ever before. Some even come with smart features to prevent overheating or overcharging. Fast charging may reduce the long-term lifespan of your battery. Why?

Because: Heat is generated during fast charging, and heat speeds up battery wear.

Why do we need a public fast charging infrastructure?

In the early market, the customers to a large degree consisted of commuters in the cities who charged at home or at work and had a limited need for a public network of charging stations. Today we see a growing need for a public fast charging infrastructure to help expand the customer base beyond the initial buyers.



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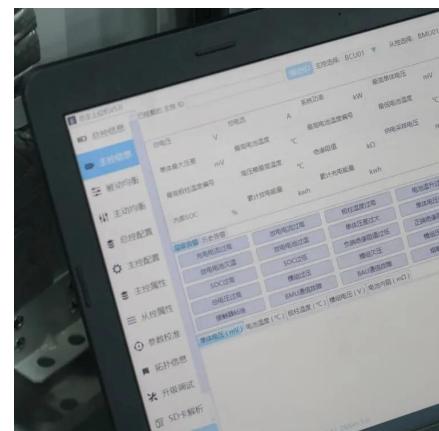


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