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DC fast charging 42kw forty kilowatt three-phase inverter

Overview

What is a DC fast charger?

DC fast chargers are high-powered electric vehicle charging stations which provide a much faster charging experience compared to the more conventional Level 1 or Level 2 battery chargers. These direct current level 3 fast chargers are typically found at public charging stations where drivers may need a quick boost to continue on their journey.

What is the voltage output of a DC fast charger?

The voltage output of this lower powered DC fast charger can vary depending on the charger’s power rating and the vehicle it is charging but is typically around 200 to 400 volts which can add around 100-150 miles of range in 30-60 minutes of charge. Level 2 chargers commonly found at many public charging stations.

What is the difference between AC and DC fast chargers?

While most home charging systems use alternating current (AC) to charge a vehicle’s battery, DC fast chargers use direct current. This key difference in how electricity is delivered allows DC fast chargers to bypass the car’s onboard charging system and feed power directly into the battery, enabling significantly faster charging times.

What is a Level 3 DC fast charger?

Common output voltages are 400–800V, with newer EVs trending towards 800V batteries. Since Level 3 (L3) DC fast chargers must convert three-phase Alternating Current (AC) input voltage to DC, they include an AC-DC Power Factor Correction (PFC) front-end with an isolated DC-DC converter to interface the PFC output to the EV’s battery.

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