

## ContainerPower Energy Solutions

# Base station power module charging current



## Overview

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What is power module in a DC charging station?

The power module in a DC charging station consists of AC/DC power stage and DC/DC power stage integrated into the charging station. Each converter is associated with its power stage comprises of power switches and gate driver, current and voltage sensing, and controller.

How a charging module works?

The software algorithm of the controller acts on the semiconductor power switches through the driving circuit, thereby controlling the output voltage and current of the charging module to charge the battery pack. This process involves a high technical threshold. 3. Advantages of Modern Charging Modules.

Can a charger module be used on a DC fast charging station?

The charger modules can be used on DC fast charging stations for EVs and E-buses. Note: The charger module does not apply to on-board chargers (inside cars) . System space is saved due to a high power density, and each module has a power of 30kW, 40kW or 60kW. Wide input voltage: 260V-530V, designed with input surge protection.

How does EV charging station power module work?

This block converts the incoming AC voltage into a fixed DC voltage of around 800 V. This voltage serves as input to the DC/DC power stage which processes power and interfaces directly with the battery on the electric vehicle. Figure 2-1. EERD of EV Charging Station Power Module.

What are charx power basic fast-charging modules?

The highly efficient CHARX power basic fast-charging modules, allow more economic operation of your DC charging infrastructure.They convert AC mains power into the DC power needed for e-vehicle fast charging.

What is a DC charger module?

The charger module is the inner power module for DC charging stations (piles), and convert AC energy into DC in order to charge vehicles. The charger module takes a 3-phase current input and then outputs the DC voltage as 200VDC-500VDC/300VDC-750VDC/150VDC-1000VDC, with an adjustable DC output to meet a variety of battery pack requirements.

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