Boost Charger 150

Ultrafast EV Charging with Integrated Energy Storage

The FreeWire Boost™ Charger is an ultrafast DC charger for electric vehicles (EVs). The battery-integrated design enables Boost Charger to easily connect to existing electrical infrastructure without costly construction and complex permitting. Boost Charger has a 160 kWh battery capacity with 150 kW output and only 27 kW or less input, making it ready for current and next generation EVs.

TURNKEY INSTALLATION

Plug & Play: battery-integrated design connects to the existing low-voltage grid, enabling cost efficient installation in hours

Small Footprint: space efficient design means no unsightly and expensive electrical infrastructure

Lower Operating Costs: energy buffering technology limits input from the grid, reducing costly demand charges

PREMIUM CHARGING

Ultrafast Charging: charges EVs up to 100 miles in 10 minutes

Dual Charging: provides simultaneous charging that's universally compatible with all EV models

Customizable Design: option for custom branded unit including point-of-sale integration for retailers

FUTURE-PROOF

Smart & Connected: integrated energy management software and OCPP communications compatible with any charging network

Flexible Deployment: easy to relocate depending on charging demand and site access limitations

Specifications

ENERGY STORAGE

Energy Chemistry	Lithium-ion (NMC)
Energy Storage Capacity	160 kWh

ELECTRICAL SPECIFICATIONS (OUTPUT)

Supported Connector Types	CCS1 / CCS2 CHAdeMO
Charge Ports	2
Max Output Power (DC)	CCS: 150 kW CHAdeMO: 100 kW Combined: charge 2 vehicles simultaneously at up to 75 kW each
Max Output Current (DC)	CCS: 400 A CHAdeMO: 200 A

ELECTRICAL SPECIFICATIONS (INPUT)

Power (AC)	≤ 27 kW
Voltage (AC)	3-phase 208 V, or; Split-phase 240 V
Current	3-phase: 100 A service, 80 A typical, or; Split-phase: 150 A service, 120 A typical
Frequency	50 / 60 Hz ± 1%

MECHANICAL SPECIFICATIONS

Dimensions	101 cm (40") L x 109 cm (43") W x 243 cm (96") H
Cable Length from Station	381 cm (150")
Weight	1,720 kg (3,800 lbs)

ENVIRONMENTAL SPECIFICATIONS

Installation Location	Outdoor
Enclosure Protection Rating	IP 54
Operating & Storage Temperature	-20° C (-4° F) to +55° C (131° F)
System Round Trip Efficiency	> 90% (at ambient temperature)

NETWORK & USER INTERACTION

Network Connection	4G LTE, Ethernet
Communications	OCPP 1.6-J
User Interface Screen	61 cm (24") ruggedized LCD touchscreen
Credit Card Reader	Standard
Payment Methods Accepted	Credit cards, NFC, MIFARE, FeliCa
Access Control & Authentication	RFID: ISO 14443A/B, ISO 15693
Safety & Compliance	UL2202, UL2231-1, UL2231-2, UL991, UL1973 (battery pack) FCC Part 15 Class A (U.S.)

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