



# 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



### 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: 300 A CHAdeMO: 200 A

### ELECTRICAL SPECIFICATIONS (INPUT)

Power (AC)	≤ 27 kW
Voltage (AC)	U.S./Canada: 208 Vac 3-phase, or 240 Vac split-phase U.K./E.U.: 400 Vac 3-phase Japan: 200 Vac 3-phase
Current	U.S./Canada: 208 Vac: 100 A service, 80 A typical; or 240 Vac: 150 A service, 120 A typical U.K./E.U.: 400 Vac: 60 A service, 40 A typical Japan: 200 Vac: 100 A service, 80 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	340 cm (134")
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 15693, ISO 14443, NFC
Safety & Compliance	U.S.: UL2202, UL2231-1, UL2231-2, UL991, UL1973 (battery), FCC Part 15 Class A Canada: CSA No 107.2, CAN/UL1973, ICES-001 Class A U.K./E.U.: 61851-1, 61851-23, 61851-21-2

v.1.150kW-3.11.2022



# Boost Charger 200

## Ultrafast EV Charging with Integrated Energy Storage

The Boost Charger™ 200 is an ultrafast and flexible DC fast 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 200 kW output and only 27 kW or less input, making it ready for all EVs including light to heavy-duty models.



### HIGH PERFORMANCE

**Ultrafast Charging:** adds up to 200 miles of range in 15 minutes

**Dual Charging:** provides simultaneous charging and customizable port configurations including CCS1/CCS2 and CHAdeMO

**High Power:** outputs up to 950 V for charging light to heavy-duty EVs

### FLEXIBLE PLATFORM

**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

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

### FUTURE-PROOF

**Smart & Connected:** flexible management platform allows you to integrate charger with your business or any third party charging software

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



**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: 200 kW CHAdeMO: 100 kW Combined: charge 2 vehicles simultaneously at up to 100 kW each
Voltage	200-950 Vdc

**ELECTRICAL SPECIFICATIONS (INPUT)**

Power (AC)	≤ 27 kW
Voltage (AC)	U.S./Canada: 208 Vac 3-phase, or 240 Vac split-phase U.K./E.U.: 400 Vac 3-phase
Current	U.S./Canada: 208 Vac: 80 amps continuous, or 240 Vac: 120 amps continuous U.K./E.U.: 400 Vac: 40 amps continuous
Frequency	50 / 60 Hz ± 1%

**MECHANICAL SPECIFICATIONS**

Dimensions	109 cm (43") L x 101 cm (40") W x 243 cm (96") H
Cable Reach from Station	340 cm (134")
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)

**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 15693, ISO 14443, NFC
Safety & Compliance	U.S.: US:UL2202, UL2231-1, UL2231-2, UL991, UL1973 (battery pack), FCC part 15 Class A (U.S.) Canada: CSA 107.2 CE & IEC expected complete 2022