

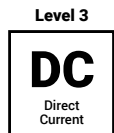


Elite  
EV + CHARGING

# EVD350-1-540A

COMMERCIAL • LEVEL 3

## SPECIFICATIONS



Los Angeles | [www.luseElite.com](http://www.luseElite.com) | 323.888.1973

# EVD350-1-540A

## COMMERCIAL • LEVEL 3

The EVD350 delivers the fastest charging times available. It is ideally suited for highway rest stops, traditional fuel stations, and fleet charging, with a capacity of 350kW, dynamic power distribution, and the ability to charge two vehicles simultaneously. High power efficiency and the option to share power from a single power cabinet to two dispensers reduce ownership costs. The charger features a user-friendly design with LED status lights visible from a distance and a 15-inch display. The EVD350 enables EV drivers to spend less time charging, resulting in faster trip times.



### DISPENSER

#### Power Input

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<b>Input Rating</b>	120Vac, 1-Phase, 60Hz
<b>Input Current</b>	8.9A
<b>Input Breaker</b>	20A Breaker

#### Power Output

<b>Output Voltage</b>	150-950 VDC
<b>Output Interface</b>	Double CCS1
<b>DC Output Current</b>	max. 540A/200A
<b>DC Output Power</b>	350 kW max.

#### Protection

<b>Protection</b>	Under Voltage Protection (UVP), Over voltage protection (OVP), Surge Protection Device (SPD), Over Current Protection (OCP), Over Temperature Protection (OTP), Control Pilot Fault Protection, Ground fault & Circuit Protection
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#### User Interface & Control

<b>Display</b>	15 inch LCD Panel
<b>Push Buttons</b>	Four (4) Buttons for HMI
<b>User Authentication</b>	ISO/IEC 14443A/B, NFC Payment: Integrated Credit Card Reader
<b>Charge option</b>	Simultaneous Charging with Equal Power Distribution

#### Communication

<b>Connectivity</b>	Backend system integration with OCPP 1.6
<b>Network Interface</b>	Ethernet, Cellular (option)

#### Environment

<b>Operating Temperature</b>	Operating at -22°F to +122°F (-30°C to +50°C); Derating: 540A at 30°C/ 432A at 50°C (1 of guns)
<b>Storage Temperature</b>	-40°F to +176°F (-40°C to +80°C)
<b>Humidity</b>	< 95 % relative humidity, non-condensing
<b>Altitude</b>	6,500 ft

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## COMMERCIAL • LEVEL 3

### Mechanical Design

Ingress Protection	NEMA 3R
Enclosure Protection	IK10 according to IEC 62262
Cooling	Forced Air
Charging Cable Length	14 ft
Dimension (W x H x D)	42.50 × 78.70 × 19.10 in
Weight*	706 lb

### Regulation

Certifications	UL 2202, UL 2231
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### Installation

Accessory	Weight Based Retractor
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- ISO 15118 PnC and OCPP 2.0 in plan.
- \*Excluding charging connector cable.

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### POWER CABINET

#### Power Input

<b>Input Rating</b>	480Vac Three phase (L1,L2,L3) , 60Hz
<b>Input Current</b>	447 A
<b>Input Power</b>	369 kW
<b>Power Factor</b>	> 0.99
<b>Current THD</b>	< 5%
<b>SCCR</b>	65kA

#### Power Output

<b>Output Voltage</b>	150-950 VDC
<b>DC Output Current</b>	Each set of terminal: 540A max, Total 2 sets: 1080A max
<b>DC Output Power</b>	350 kW max.
<b>Efficiency</b>	≥ 95% @400VDC, Full Load; (Peak 95.5%)

#### Protection

<b>Protection</b>	Under Voltage Protection (UVP), Over voltage protection (OVP), Surge Protection Device (SPD), Over Current Protection (OCP), Over Temperature Protection (OTP), Control Pilot Fault Protection, Ground fault & Circuit Protection
<b>Input / Output</b>	Input AC Breaker: 630A-3P / Output DC Relay: 750A x2

#### Environment

<b>Operating Temperature</b>	-22°F to +122°F (-30°C to +50°C)
<b>Storage Temperature</b>	-40°F to +176°F (-40°C to +80°C)
<b>Humidity</b>	< 95% relative humidity, non-condensing
<b>Altitude</b>	6,500 ft
<b>EMC</b>	FCC Part 15-b Class A

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COMMERCIAL • LEVEL 3

### Mechanical Design

Ingress Protection	NEMA 3R
Enclosure Protection	IK10 according to IEC 62262
Cooling	Forced Air
Dimension (W x H x D)	39.30 x 78.70 x 31.40 in
Weight	1356 lb

### Regulation

Certifications	UL 2202, UL 2231
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The EVD350 delivers the fastest charging times available. It is ideally suited for highway rest stops, traditional fuel stations, and fleet charging, with a capacity of 350kW, dynamic power distribution, and the ability to charge two vehicles simultaneously. High power efficiency and the option to share power from a single power cabinet to two dispensers reduce ownership costs. The charger features a user-friendly design with LED status lights visible from a distance and a 15-inch display. The EVD350 enables EV drivers to spend less time charging, resulting in faster trip times.



### DISPENSER AND 350KW POWER CABINET

#### System

<b>System Configuration</b>	1 Cabinet, 1 Dispenser
<b>System Description</b>	480V input voltage 350kW DC EVSE unit with dynamic power sharing capability between two liquid-cooled CCS1 connectors, each with a maximum of 540A.
<b>Standby Power</b>	185W
<b>Certifying Agency</b>	cCSAus Certified
<b>Applicable Standards</b>	UL 2202, UL 2231-1, UL 2231-2
<b>Applicable Standards</b>	SAE J1772, IEC 61851-1, IEC 61851-23, IEC 62196-3, IEC-62196-3-1, IEC 61000-6-3 EMC, Class B, FCC Part 15 Class A, SAE J2894-1 JAN 2019, (ISO 15118), DIN 70121, DIN 70122, SAE J1772, SAE J2953/2, CCS-1, CharIN compliance (upon availability), EV Cable: UL 2251, UL50E, CSA C22.2 No 182.2

#### Ordering Chart

Part	Commercial DC (D)	Family	Amerpage	Max Rated Power	Ethernet	Cellular (option)
EV	D	350-1	540A	350KW	E	4G

#### Example

EVD350 - 1 - 540A - 350KW - E - 4G