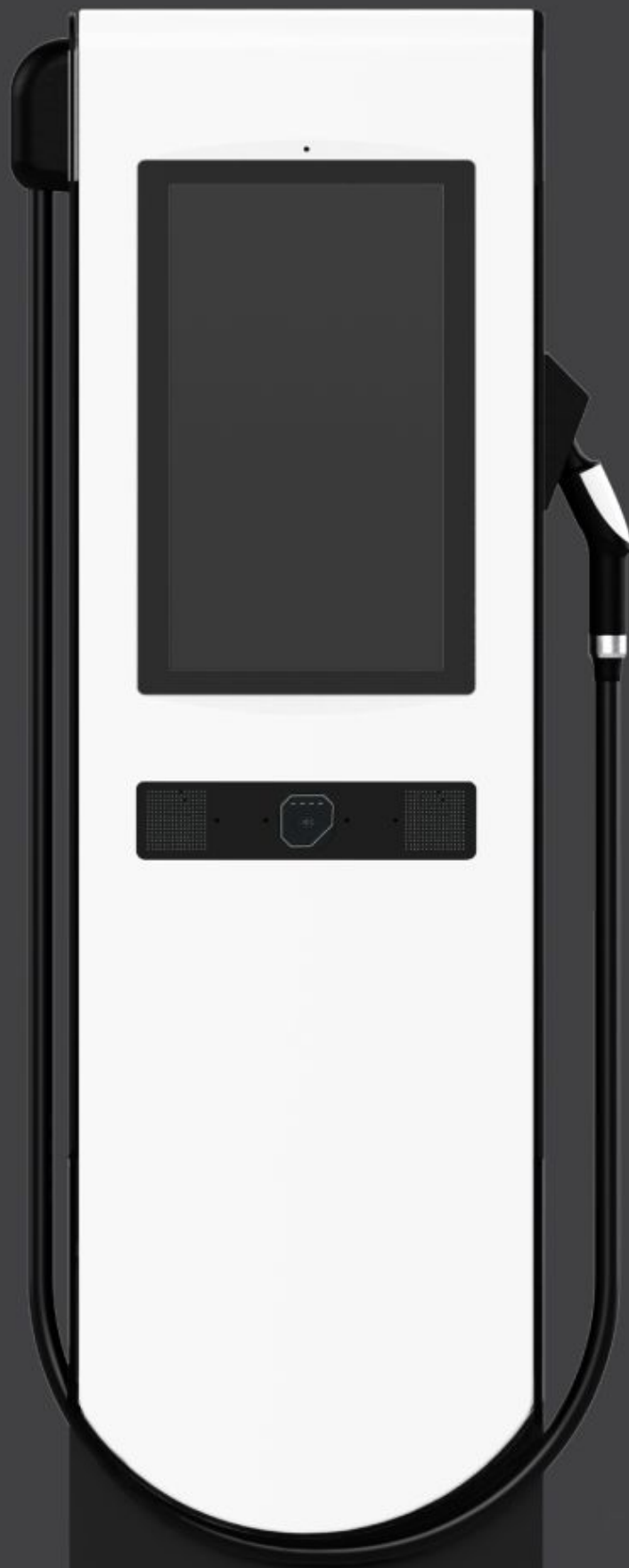


RetailEdge Station Spec Sheet 2025

The first EV fast charger
built from the ground
up for Retailers





RetailEdge Station Specifications

Input	AC Input Voltage	480 VAC +/- 10%, 3P+N+PE
	Input Current	2x506A
Output	Charging Kiosks	2-6
	Total Output Power	800kW
	Max Power / Port	400 kW
	Operating Voltage Range	150 - 1000 VDC
	Continuous Current	0 - 500 A
Charging Kiosk	Dimensions (W×H×D)	23" W x 77" H x 9.8" D
	Weight (with mounting plate)	250 lbs.
	Operating Temperature Range	-25°C to +50°C (with derating @ 40°C)
	Cooling Method	Liquid Cooled Cable
	Max. Operating Altitude	2,000 m (6,561ft)
	Relative Humidity Limit	95 % (Non-Condensing)
	Cable Design	NACS (or CCS1)
		Length: 3.5m
	Protection Degree	NEMA 3R, IK10 Touch Screen, IK08 Payment Terminal
Charging Cabinet	Operating Noise	< 60dBA @ 1m
	Dimensions (W×H×D)	41" W x 87" H x 57" D
	Weight (with mounting plate)	2270 lbs.
	Operating Temperature Range	-25°C to +50°C
	Max. Operating Altitude	2,000 m (6,561ft)
	Relative Humidity Limit	95 % (Non-Condensing)
	Max Efficiency	>96.5% (Full Load)
	Operating Noise	< 65dBA
Driver Interface	Touchscreen	27", 1500nit, 1080p
	Camera	4K Wide FOV
	Audio	High fidelity audio output and input with dynamic volume control and noise suppression
	AI	HaloAI Charging Assistant
Communication	Backend Support	OCPP 1.6J (Core: Supported), OCPP 2.0.1 (Core: Supported)
	Charging Interface Protocol	DIN 70121, ISO 15118-2,-20 (Plug & Charge)
	User Authentication	RFID (ISO/IEC 14443 A/B), NFC, ICC Reader
	Payment Methods	Swipe, Insert, Tap
	Network Connection	Ethernet, 4G LTE/5G, Starlink
Standards Compliance	UL 2202, UL 2231-1/2, J2894, OCPP 1.6J/2.0J, OCPI 2.2.1, ISO15118 w/ Plug & Charge, ADA	

Battery Energy Storage System (BESS)

Specifications

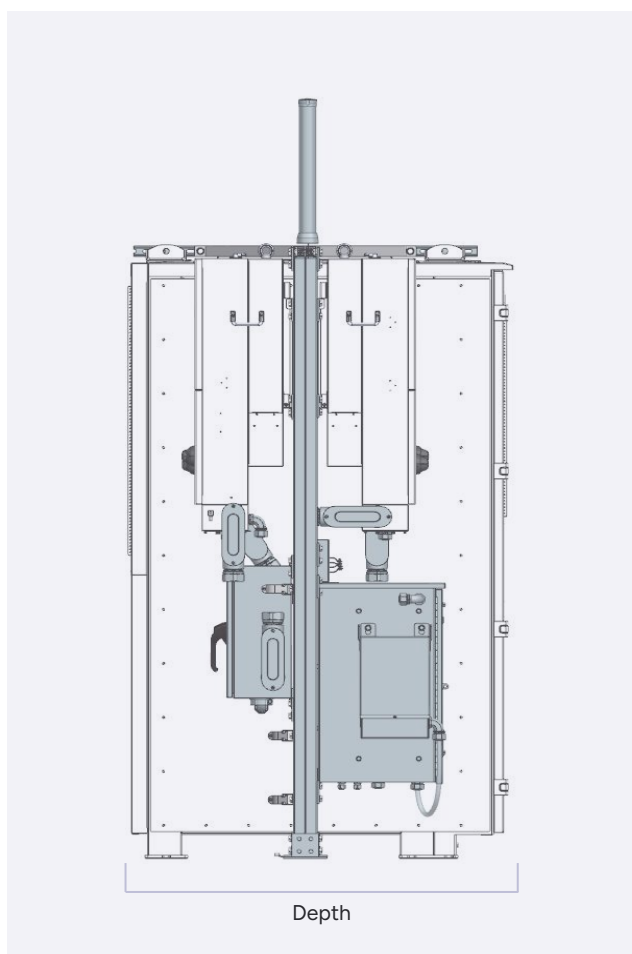


		Battery Model	
		125 kW Battery	250 kW Battery
Main AC Input and Output Characteristics	AC Line Voltage and Phase	480 VAC 3-Phase	480 VAC 3-Phase
	AC Line Frequency	60 Hz	60 Hz
	Rated Output Apparent Power	125 kVA	250 kVA
	Rated Output Real Power	125 kW	250 kW
	Required Input/Output Overcurrent Protection	1 x 200 A Circuit	2 x 200 A Circuits
	Power Factor	0-1.00, Leading or Lagging	0-1.00, Leading or Lagging
	Current Harmonics	IEEE 1547 Compliant, <5% TDD	IEEE 1547 Compliant, <5% TDD
	Round Trip Efficiency <i>including typical control power loads</i>	82%	82%
Control Power and Communications Characteristics	AC Line Voltage and Phase	480 VAC 1-Phase	480 VAC 1-Phase
	AC Line Frequency	60 Hz	60 Hz
	Input Power	3.5 kVA	5.5 kVA
	Required Input Overcurrent Protection	20 A	20 A
	Site Communications	Chargers: Ethernet (CAT6); Power Metering: Modbus RTU (RS-485)	Chargers: Ethernet (CAT6); Power Metering: Modbus RTU (RS-485)
	Internet Communications	5G Cellular, Multi-Carrier	5G Cellular, Multi-Carrier
High Voltage DC Battery Subsystem Characteristics	Battery Cell Chemistry	Lithium Iron Phosphate (LFP)	Lithium Iron Phosphate (LFP)
	Rated Charge Capacity	285 Ah	285 Ah
	Total Energy Capacity	237 kWh	379 kWh
	Rated Energy Capacity <i>at 25°C, 1C charge/1C discharge, 5 - 98% SoC</i>	220 kWh	352 kWh
	Nominal Voltage	832.0 V	1,331.2 V
	Maximum Charge Voltage	949.0 V	1,497.6 V
	Minimum Discharge Voltage	740.0 V	1,164.8 V
	Maximum Charging Current	285 A	285 A
	Maximum Discharging Current	285 A	285 A
Mechanical Characteristics	Size (maximum) <i>H x W x D, see key image below</i>	114 ½" x 76 ⅞" x 51 ¼" (2,905 mm x 1,933 mm x 1,300 mm)	114 ½" x 98 ¾" x 51 ¼" (2,905 mm x 2,509 mm x 1,300 mm)
	Weight (maximum)	6,526 lbs (2,960 kg)	8,922 lb (4,047 kg)
	Battery Module Quantity	5	8
	Battery Module Cooling	Liquid Cooling (50% Ethylene Glycol Aqueous Solution)	Liquid Cooling (50% Ethylene Glycol Aqueous Solution)

Battery Specifications cont.

		Battery Model	
		125 kW Battery	250 kW Battery
Environmental Limits	Operating Temperature	-25 to +45 °C	-25 to +45 °C
	Storage Temperature	-30 to +60 °C	-30 to +60 °C
	Humidity	≤95% R.H. Non-Condensing	≤95% R.H. Non-Condensing
	Operating Altitude	≤ 6,561 ft (≤ 2,000 m)	≤ 6,561 ft (≤ 2,000 m)
	Protection Class	IP66 (Battery Rack), NEMA 3R (Ancillary Rack)	IP66 (Battery Rack), NEMA 3R (Ancillary Rack)
Certification and Standards Compliance	Battery Modules	UN38.3, UL 1973, UL 9540A, IEC 62619	UN38.3, UL 1973, UL 9540A, IEC 62619
	Battery Rack	UL 1973	UL 1973
	Inverter(s)	UL 1741 SA, IEEE 519, IEEE 1547, CSA 22.2 #107.1, NFPA 70	UL 1741 SA, IEEE 519, IEEE 1547, CSA 22.2 #107.1, NFPA 70

Side



Front

