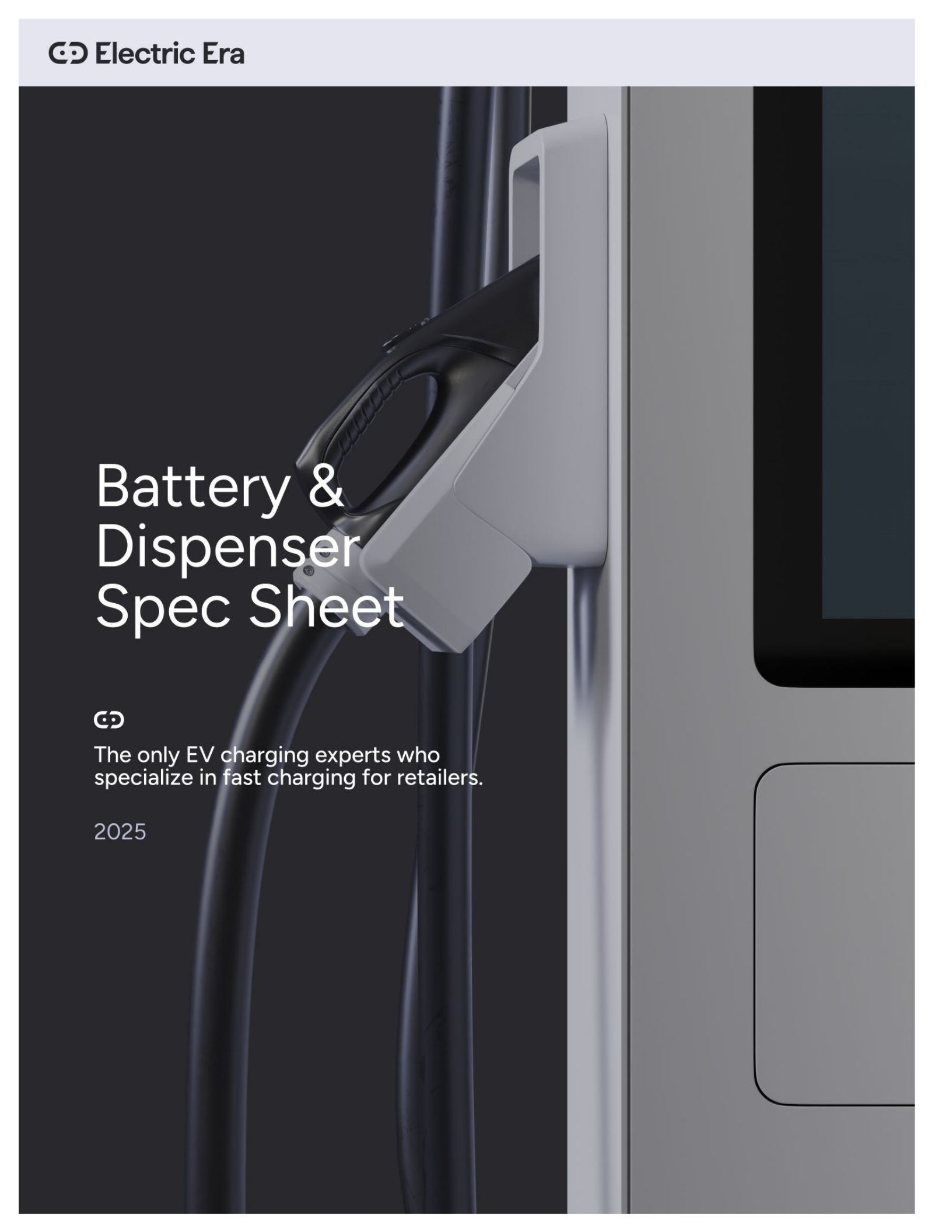




Battery & Dispenser Spec Sheet



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2025



Nexus Battery Specifications

Version 4

		Nexus Battery Model	
		Nexus	Nexus Pro
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)

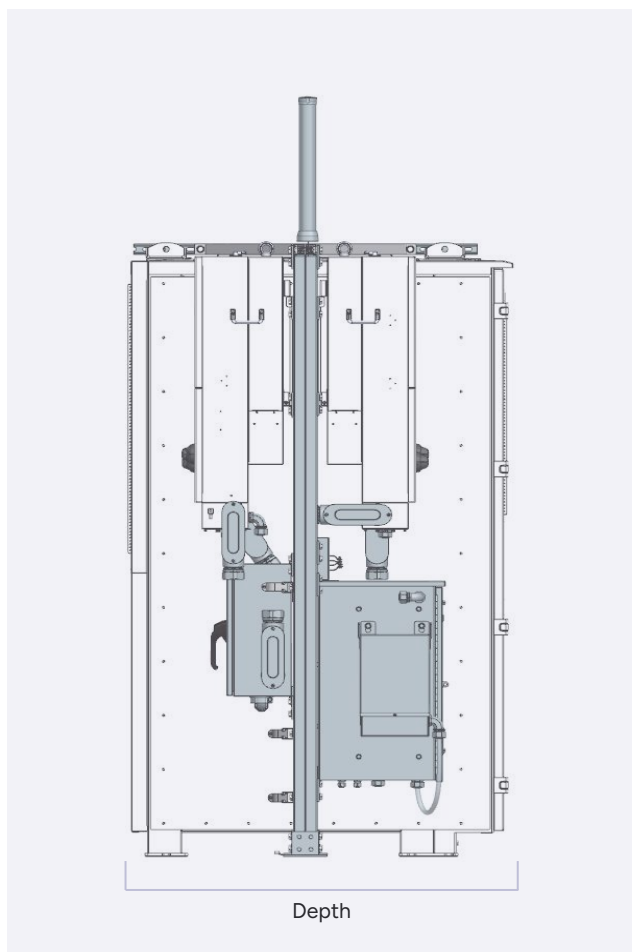
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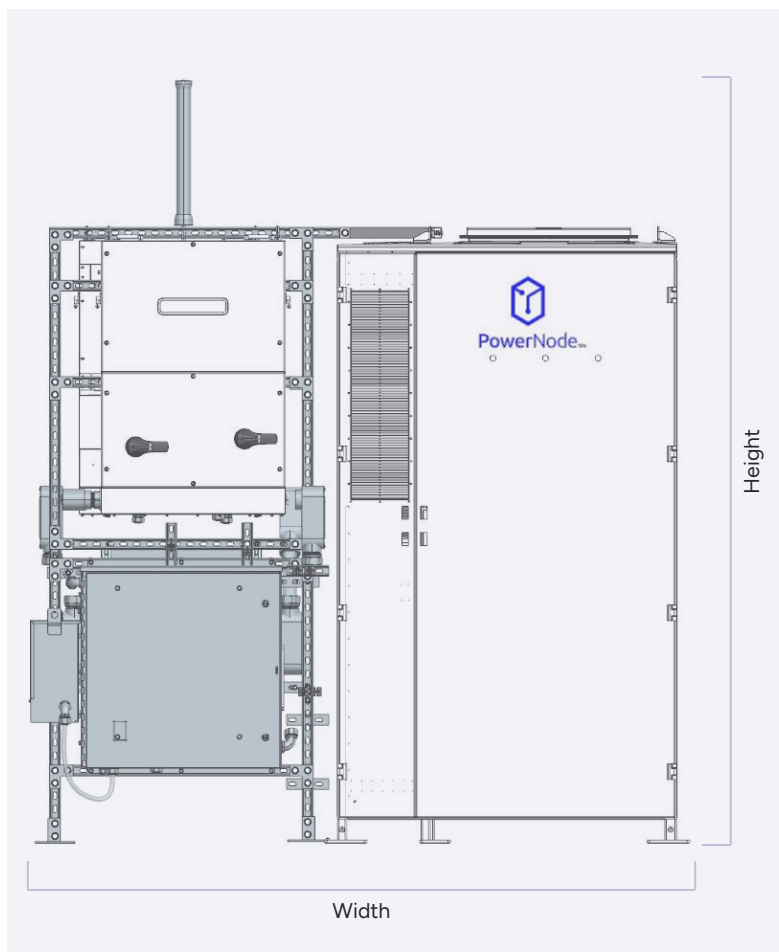
Nexus Battery Specifications cont.

		Nexus Battery Model	
		Nexus	Nexus Pro
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





V2 400 kW Dispenser Specifications

DP400K



Input	Nominal Power	400 kW
	Input Voltage Range	200 VDC – 1,000 VDC for Charging, 277 VAC for Control (200 W)
	Max Input Current	500 A
Output	Nominal Power	400 kW
	Operating Voltage Range	200 VDC – 1,000 VDC
	Max. Current	CCS1 (Liquid Cooled): 500 A NACS (Liquid Cooled): 500 A (TBD)
	Metering Accuracy	Less than 1%
	Power Sharing Charging Scenario	Active Power Sharing, 50 kW Increments, Dual Couplers, Simultaneous Charging
Protection	Over-Temperature Protection	Enabled
	Over-Voltage Protection	Enabled
	Over-Current Protection	Enabled
	Proximity Loss Protection	Enabled
	FG Disconnection Detect Protection	Enabled
	DC Surge Protection	Enabled
	IMD (Insulation Monitoring Device)	Enabled
Communication	User Interface	32 inch, FHD (1920 × 1080) Touch Screen; Emergency Stop Button
	USB	Enabled
	RS485	Enabled
	Backend Support	OCPP 1.6J (Core: Supported), OCPP 2.0.1 (Core: Supported)
	Charging Interface Protocol	DIN70121, ISO15118-2 (PnC)
	User Authentication	RFID (ISO/IEC14443 A/B, ISO15693), NFC, IC Reader
	Payment Terminal	IDTech VP6800 (Swipe, Insert, Tap)
	Network Connection	Ethernet, Optical Fiber (OM3, 4 cables per dispenser)
General	Dimensions (W×H×D)	Without LED Top Banner: 700×550×2,050mm, With LED Top Banner: 700 × 550 × 2,325 mm <i>*LED Banner (Option): LED banner must be purchased prior to placing an order.</i>
	Weight (with mounting plate)	Without LED Banner: 320 kg, With LED Banner : 330 kg, LED Banner: 10 kg
	Operating Temperature Range	-35°C to +55°C (with derating @ 45°C) / -31°F to +131°F
	Storage Temperature Range	-40°C to +70°C / -40°F to +158°F
	Cooling Method	Forced Air Cooling
	Max. Operating Altitude	2,000 m (6,561ft)
	Relative Humidity	5 – 95 % (Non-Condensing)
	DC Coupler (2ea)	CCS1/CCS1 or CCS1/NACS Length: 5.5 m (Outside Length = External Cable + Connector head), Cable Management
	DC Terminal Block	M10, 30 mm
	Protection Degree	NEMA 3R, IK10 (Touch Screen, IK08)
	Operating Noise	< 70dB @ 1m

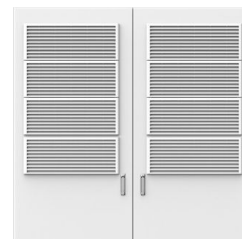
Standards Compliance NRTL (UL), FCC Part 15, UL2202, UL2231-1, UL2231-2,UL991, UL1998, CSA, CTEP (NTEP), ADA

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V2 600 kW Power Cabinet Specifications

PC600K



Input	Nominal AC Power	632 kW
	Nominal Input Voltage	480 VAC $\pm 10\%$ / 3P, 4W
	Rated AC Grid Frequency	50 Hz / 60 Hz
	Max. Current	≥ 760 A
	Adjustable Power Factor Range	≥ 0.99 (@ Load 100%, 480V AC $\pm 10\%$)
Efficiency	Max. Efficiency	$\geq 95\%$ (@ Load 100%)
Output	Nominal Output Power	600 kW
	Operating Voltage Range	200 VDC – 1,000 VDC
	Max. Current	2,000 A
	Power Sharing Charging Scenario	Active Power Sharing, 50 kW Increments
Protection	Over-Temperature Protection	Enabled
	Over-Voltage Protection	Enabled
	Over-Current Protection	Enabled
	AC Surge Protection	Enabled
Communication	Network Connection	Optical Fiber (OM3, 4 Cables Per Dispenser)
General	Dimensions (W×H×D)	1,750 mm × 1,000 mm × 2,150 mm
	Weight (with mounting plate)	1,200 kg
	Operating Temperature Range	-35°C to +55°C (With Derating @ 45°C) / -31°F to +131°F
	Storage Temperature Range	-40°C to +70°C / -40°F to +158°F
	Cooling Method	Forced Air Cooling
	Max. Operating Altitude	2,000 m (6,561ft)
	Relative Humidity	5 – 95 % (Non-Condensing)
	AC Terminal Block	M10, 37mm
	Protection Degree	NEMA 3R, IK10
	Operating Noise	< 70dB @ 1m
Standards Compliance	NRTL (UL), FCC Part 15, UL2202, UL2231-1, UL2231-2, UL991, UL1998, CSA	



V2 200 kW Standalone DCFC Specifications

FC200K-B2-PS / FC200K-BH-PS



Input	Nominal Power	211 kW
	Nominal Input Voltage	480 VAC $\pm$ 10 % / 3P, 4W, TN-S
	Rated AC Grid Frequency	50 Hz / 60 Hz
	Maximum Input Current	284 A
	Adjustable Power Factor Range	$\geq$ 0.99 (@ Load 100%, 480 VAC $\pm$ 10 %)
Efficiency		$\geq$ 95% (@ Load 100%)
Output	Nominal Output Power	200 kW
	Operating Voltage Range	150 VDC – 1,000 VDC
	Max. Current	CCS1 (Air Cooled): 350 A (Boost 500 A, 10 min @ +25°C) NACS (Air Cooled): 350 A (Boost 500 A, 10 min @ +25°C)
	Metering Accuracy	Less than 1%
	Power Sharing Charging Scenario	Active Power Sharing, 100 kW Increments, Dual Couplers, Simultaneous Charging
Protection	Over-Temperature Protection	Enabled
	Over-Voltage Protection	Enabled
	Over-Current Protection	Enabled
	Proximity Loss Protection	Enabled
	FG Disconnection Detect Protection	Enabled
	AC Surge Protection	Enabled
	DC Surge Protection	Enabled
	IMD (Insulation Monitoring Device)	Enabled
Communication	User Interface	32 inch, FHD (1920 $\times$ 1080) Touch Screen; Emergency Stop Button
	USB	Enabled
	RS485	Enabled
	Backend Support	OCPP 1.6J (Core: Supported), OCPP 2.0.1 (Core: Supported)
	Charging Interface Protocol	DIN70121, ISO15118-2 (PnC)
	Payment Terminal	IDTech VP6800 (Swipe, Insert, Tap)
	Network Connection	Ethernet
General	Dimensions (W $\times$ H $\times$ D)	Without LED Top Banner: 700 $\times$ 550 $\times$ 2,050mm, With LED Top Banner: 700 $\times$ 550 $\times$ 2,325 mm <i>*LED Banner(Optional): LED banner must be purchased prior to placing an order.</i>
	Weight (with mounting plate)	Without LED Banner: 493 kg, With LED Banner : 503 kg, LED Banner: 10 kg
	Operating Temperature Range	-35°C to +55°C (with derating @ 45°C) / -31°F to +131°F
	Storage Temperature Range	-40°C to +70°C / -40°F to +158°F
	Cooling Method	Forced Air Cooling
	Max. Operating Altitude	2,000 m (6,561ft)
	Relative Humidity	5 – 95 % (Non-Condensing)
	DC Coupler (2ea)	CCS1/CCS1 or CCS1/NACS Length: 5 m (Outside Length = External Cable + Connector head), Cable Management
	AC Terminal Block	M12, 45 mm
	Protection Degree	NEMA 3R, IK10 (Touch Screen, IK08)
	Operating Noise	< 70dB @ 1m
Standards Compliance		NRTL (UL), FCC Part 15 Class B, UL2202, UL2231-1, UL2231-2,UL991, UL1998, CSA, Energy Star, CTEP (NTEP), ADA

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