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SEC 480kW Distributed
Charger Technical Specifications

Overview

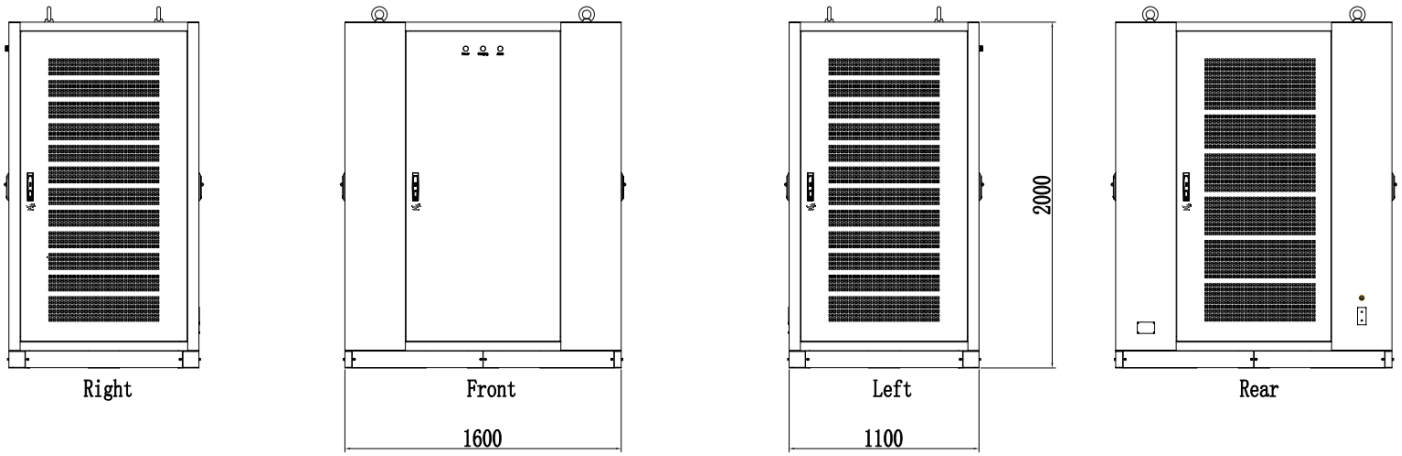
SEC series DC charger is a high-power DC distributed charger independently developed by Sinexcel. It supports new 20kW DC charging module, with a maximum charging power of 480kW. The whole charging system has high efficiency and flexible configuration. By controlling the User Terminal to charge for EV, it can realize not only even load sharing, but also the flexible output distribution of several connectors. In this way, the SEC distributed charger can realize the flexible power distribution among the connectors.

SEC series charger can provide liquid cooling and air cooling User Terminal, as well as CCS2 and CHA charging standard. The charger can meet the charging demand of larger capacity and high endurance from electric vehicle on the market. SEC series charger adopts modular design, and has multiple protections, flexible power distribution and charging control system, which has high efficiency, stable outputs and high reliability. Therefore, it can charge for the EV with high power via reliable User Terminal.



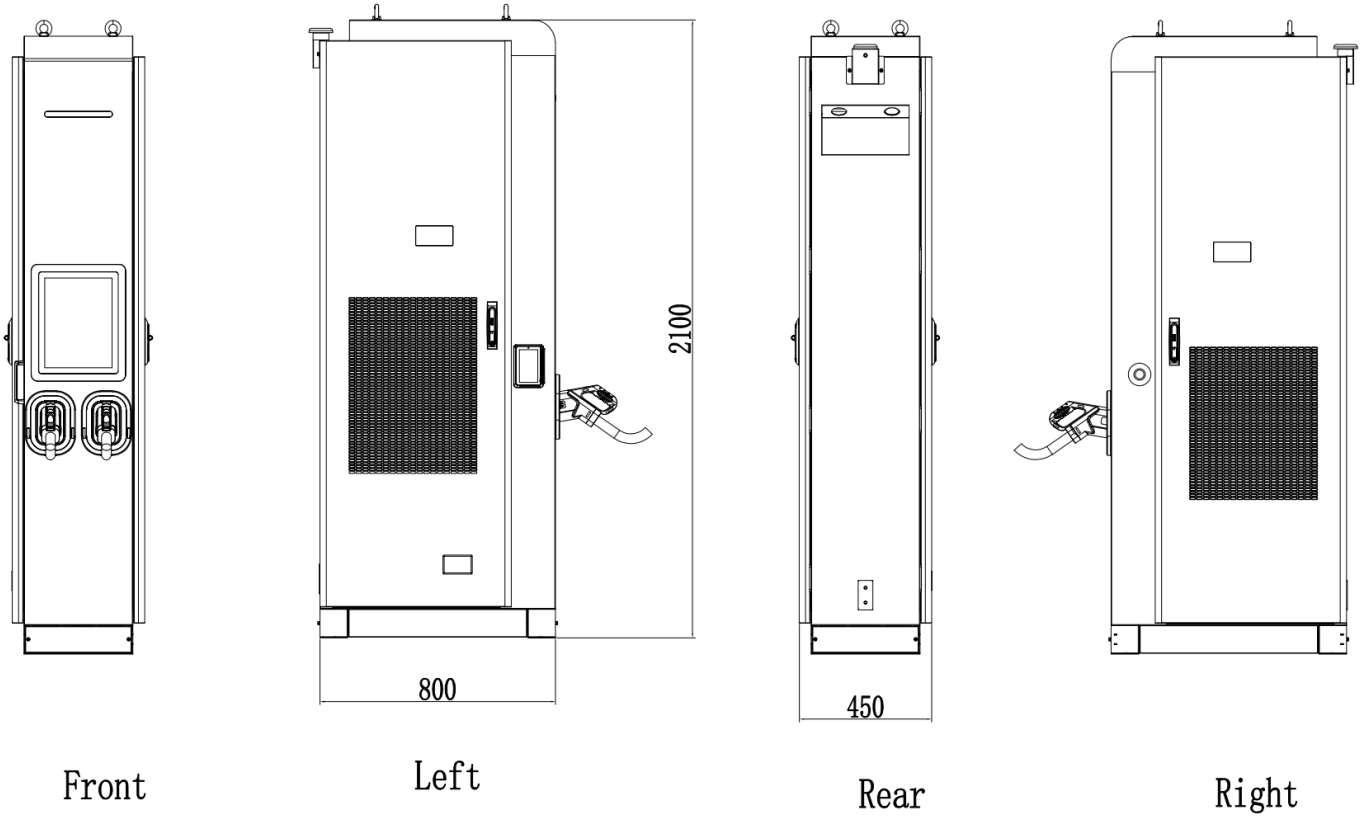
Dimensions

Power bank



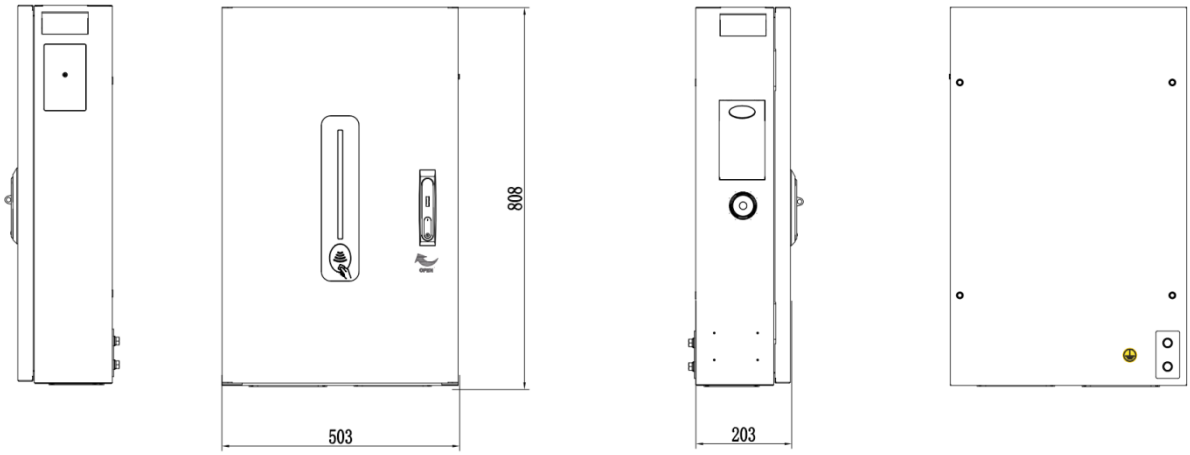
W1600*D1100*2000mm

User unit 1



W450*D800*2100mm

User unit 2



W500*D200*800mm

Specifications

480kW Distributed Charger		
	IP and IK rating	IP55/IK10
	Operational altitude	<2000 m
	Operating temperature	-25 °C to +50 °C (Derating operation over 50 °C)
	Storage temperature range	-30 °C to +70 °C
	Humidity	5 %-95 % Rh non-condensing
	EMC	Class A (industrial)
	Protection	Input over voltage protection; Output under voltage protection; Short circuit protection; Over current protection; Overtemperature protection; Current surge protection; Emergency stop protection, etc.
Power bank	Input voltage	400 VAC +/- 10%
	Input frequency	50 / 60 Hz
	Input type	3P + N + PE
	Dimensions	≤W1600mm*D1100mm*H2100mm
	Power factor	0.99
	Output voltage	200~ 1000V
	Constant power output voltage range	300~ 1000V
	Peak efficiency	96%
	THDi	<5%
	Weight	≤900 kg
	Number of connectors	6 (at most)
	Incremental unit for output power distribution	40kW
	Load sharing	Flexible load distribution according to user requirement
	Grounding type	TN-S, TT
Dual-connector	Connector options	CCS2/CHA
	Maximum current per connector	CCS2(conventional cooling for normal terminal): 350A; CCS2(liquid cooling): 500A; CHAdeMO: 125A;
	Cable length	5m (7m optional)
	Screen	15" HD touchscreen
	Dimensions	W450mm*D800mm*H2100mm
	Payment method	RFID/APP(Credit card/NFC is optional)
	Communication interface	4G / LAN Port
	Language	English (Support customizing other languages)
	Communication protocol	OCPP1.6J
	Cooling method	Air/liquid cooled

User unit	Optional functions	Tilt detection, flood detection, smoke detection, heater, cable management
	Emergency button	Yes
Slim Terminal	Connector options	CCS2
	Maximum current per connector	CCS2(conventional cooling for slim terminal): 200A;
	Cable length	5m (7m optional)
	Dimensions	W500mm*D200mm*H800mm
	Payment method	RFID/APP
	Communication protocol	OCPP1.6J
	Cooling method	Air cooled
Standards and Certifications	Standards	IEC 61851-1, IEC 61851-23, IEC 61851-21-2, ISO 15118
	Certifications Mark	CE, TUV