



SEC 480kW Distributed Charge Technical specifications



OVERVIEW

The SEC series DC charger is a high-power, independently developed DC distributed charger. It supports a new 20kW DC charging module, with a maximum charging power of 480kW. The entire charging system is highly efficient and offers flexible configuration. By using the User Terminal to charge EVs, it can achieve not only even load sharing but also flexible output distribution among multiple connectors. This way, the SEC distributed charger can realize flexible power distribution among the connectors.

The SEC series charger can provide both liquid-cooled and air-cooled User Terminals, as well as CCS2 and CHA charging standards. The charger can meet the charging demands of higher capacity and long-range electric vehicles on the market. The SEC series charger adopts a modular design and includes multiple protections, flexible power distribution, and a charging control system with high efficiency, stable outputs, and high reliability. Therefore, it can charge EVs with high power reliably via the User Terminal.

DIMENSIONS



W1400*D1000*2100mm

Power unit



W450*D800*2100mm

User unit

SPECIFICATIONS

360kW Distributed Charger		
General	Enclosure material	Stainless steel
	IP and IK rating	IP55/IK10
	Operational altitude	<2000 m
	Operating temperature	-25 °C to +50 °C (Full power)
	Temperature derating	Up to 50 °C: 100% output power, 50-65 °C interval, linear power limit, 65 °C or more, module shutdown protection.
	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.
Powerbank	Input voltage	400 VAC +/- 10%
	Input frequency	50 / 60 Hz
	Input type	3P + N + PE
	Dimensions	≤W1400mm*D1000mm*H2100mm
	Power factor	0.99
	Peak efficiency	≥96%
	THDi	<5%
	Weight	≤900 kg
	Emergency button	Yes
	Grounding type	TN-S, TT
User unit	Connector options	CCS2/CHA
	Number of connectors	6 (at most)
	Output voltage	200~ 1000V
	Constant voltage range	300~ 1000V
	Maximum current per connector	CCS2(conventional cooling): 350A; CCS2(liquid cooling): 500A; CHAdeMO: 125A;
	Cable length	5m
	Screen	15" HD touchscreen
	Dimensions	W450mm*D800mm*H2100mm
	Incremental unit for output power distribution	40kW
	Peak efficiency	96%
	Communication interface	4G / LAN Port
	Language	English (Support customizing other languages)
	Communication protocol	OCPP1.6J
Cooling method	Air/liquid cooled	

	Payment method	RFID / APP (Mobile phone / Visa / Master is optional)
	Barrier free design	Yes
	Optional functions	Cable management, tilt detection, flood detection, smoke detection, heater, cable management
	Emergency button	Yes
Standards & certifications	Standards	IEC 61851-1, IEC 61851-23, IEC 61851-21-2, ISO 15118
	Certifications Mark	CE, TUV UKCA, RCM

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