

SEC 640kW Series DC Fast Charger

Up to 96.2%

efficiency @half
load rate

Max. 700A output

500A liquid cooling -boost 700A
350A natural cooling-boost 500A

Flexible configuration

Maximum 4 connectors are supported
with different kind of dispenser

640kW

Maximum 640kW
of output

User-friendly

Barrier-free design
Multiple payment methods & languages
Support for customization

Reduce TCO

Reduce one-time input cost
Lower power loss rate
Easy maintenance



640kW Integrated Charger		
Input Characteristic	Input voltage	400 VAC +/- 10%
	Input frequency	50 / 60 Hz
	Input type	3P + PE / 3P + N + PE
	Max Input current	1160A
	Max Input power	685kVA
	Power factor	0.99
	THDi	<5%
	Grounding type	TN-S, TT, TN-C-S
Output Characteristic	Connector options	CCS2
	Connector quantity	2(Up to 4 connectors with extra dispenser)
	Output voltage	CCS2: 200-1000 Vdc 300~1000V is the output voltage of constant power output.
	Maximum output current	CCS2: 500A(Liquid cooled @ continuous charging) CCS2: 350A(Natural cooled @ continuous charging)
	Switching step	160kW
	Rated power	DC: 640kW
	Peak efficiency	96.2%
Environment	Operational altitude	<2000 m
	Operating temperature	-30 °C to +65 °C
	Humidity	5 %-95 % Rh non-condensing
Structure	IP and IK rating	IP54/ Ik10
	Dimensions	W990mm*D990mm*H2000mm
	Weight	≤850 kg
	Installation	Outdoor floor mounted
Components	Cable length	5m (4.5m exposed from the charger)
	Screen	15" HD touchscreen
	RFID Reader	ISO 14443 A + B to part 4 and ISO/IEC 15693, Mifare1, NFC
Others	Communication interface	Ethernet/GSM, 4G
	Language	English (Support customizing other languages)
	Communication protocol	OCPP1.6J, OCPP 2.0.1(Coming in 2025 Q3)
	Payment method	Credit Card, QR Code, RFID Card, Autocharge
	EMC	Class A (industrial)
	Protection	Undervoltage protection, Overvoltage protection, DC Overcurrent protection, Over-temperature protection, Surge Protection Device, Emergency Stop Protection
	Barrier free design	Yes
Standards and Certifications	Standards	IEC 61851, IEC 62196, DIN 70121, ISO 15118, etc.
	Certifications	CE, RED, MID compliant

Dual connectors dispenser

Electric Characteristic

Output voltage	CCS2: 200-1000 Vdc 300~1000V is the output voltage of constant power output.
Connector quantity	2
Rated output power	Up to 640kW(Depends on the integrated charger)
Output voltage	CCS2: 200-1000 Vdc 300~1000V is the output voltage of constant power output.
Maximum current per connector	CCS2(Conventional cooling): 350A(boost to 500A); CCS2(Liquid cooling): 500A(boost to 700A);

User interface

Cable length	5m (Exposed from the charger)
Screen	15" HD touchscreen
User Authentication	Credit Card, QR Code, RFID Card, Autocharge
RFID Reader	ISO 14443 A + B to part 4 and ISO/IEC 15693, Mifare1, NFC
Connectivity	Ethernet/GSM, 4G
Language	English (Support customizing other languages)
Barrier free design	Yes

Structure

Size	W450*D800*H2100 mm
Protection Level	IP55/IK10
Weight	≤270kg
Installation	Outdoor floor mounted

Environment

Operational altitude	<2000 m
Operating temperature	-25 °C to +50 °C
Humidity	5 %-95 % Rh non-condensing

Standards and Certifications

Backend communication	OCPP 1.6 J(OCPP 2.0.1 coming in 2025 Q3)
Standards	IEC 61851, IEC 62196, DIN 70121, ISO 15118, etc.
Certifications	CE, RCM, Eichrecht, MID compliant, OCA1.6