



## THE SOLUTION FOR **CHARGE & STORAGE**

As the global demand for cleaner and more sustainable energy solutions grows, the adoption of electric vehicles (EVs) is accelerating. This growth has not only driven the expansion of the electric vehicle industry but also posed new challenges for charging infrastructure and energy storage systems.



Insufficient  
charging  
infrastructure



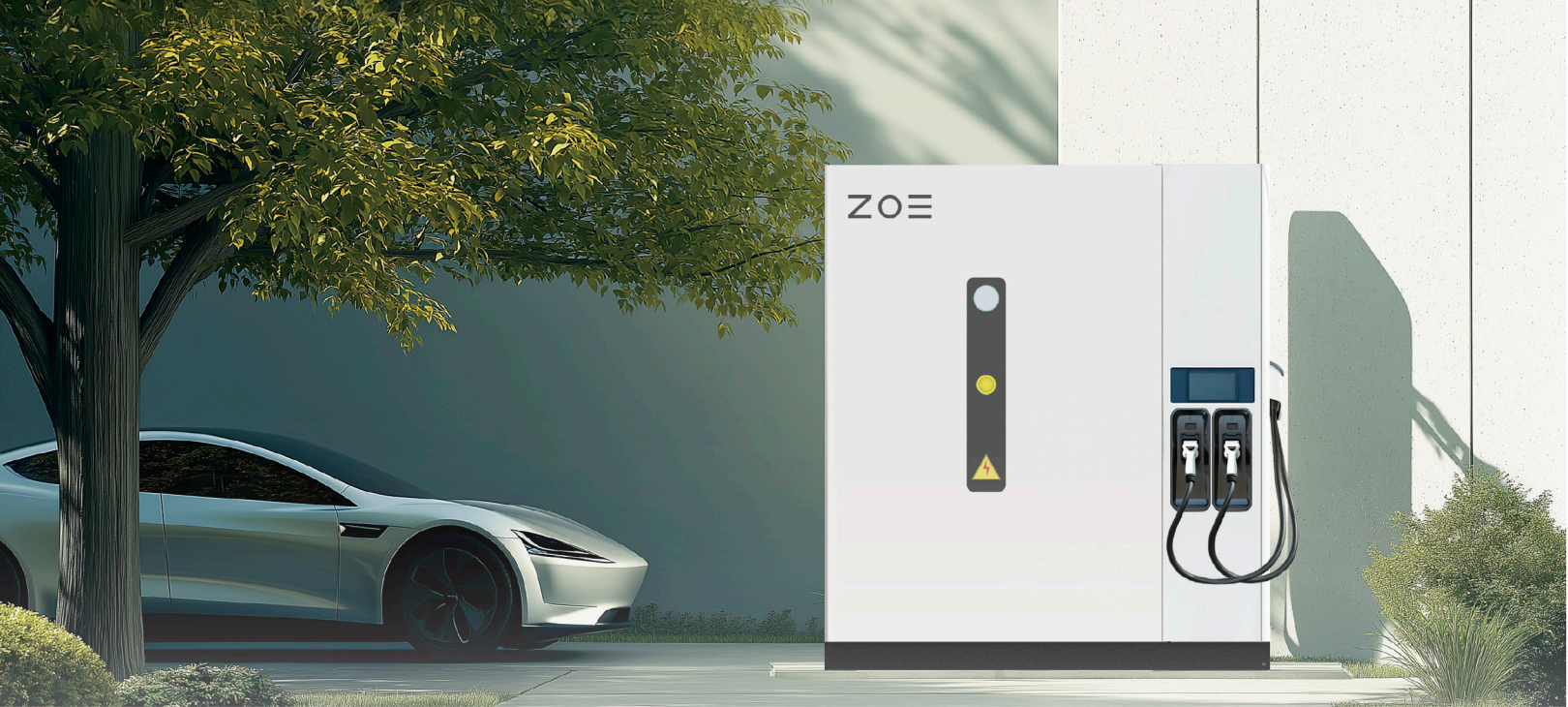
Limited  
fast-charging  
facilities



Grid overload  
during  
peak demand



Renewable energy  
integration  
challenges



## All-in-one Energy Storage and Charging System

The All-in-one system integrates energy storage and charging terminals in a compact design, reducing space and simplifying installation. With 218kWh storage, it enhances charging station capacity, effectively handling peak demand. This solution is ideal for areas with limited space, It enables easy system expansion and offers low upfront costs, increasing overall revenue and shortening the payback period.

### Application



Shopping malls



Office buildings

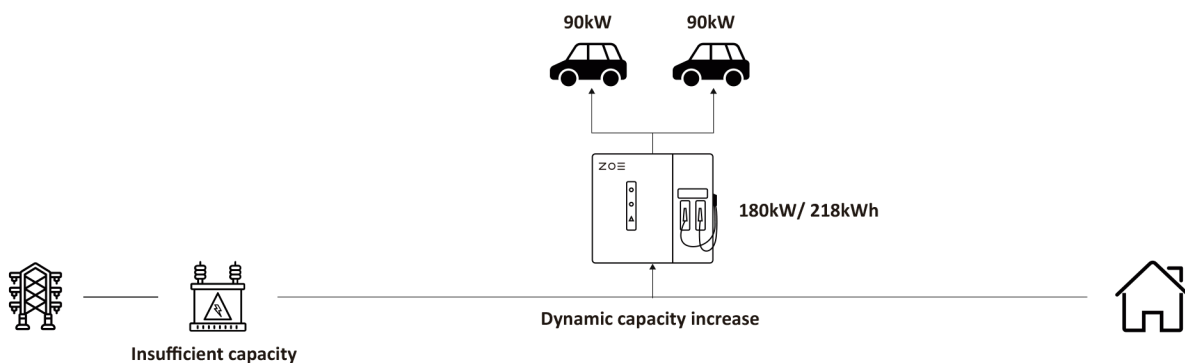


Residential parking Lots



Renewable energy  
integrated charging Station

### Solution



### Feature

- Charging power: 1\*180 kW or 2\*90 kW simultaneously
- Up to 218 kWh battery capacity
- Min. grid power: 30kVA
- Max. installation area: 2000mm\*1300mm (assemblable)





## Separate Energy Storage and Charging System

ZOE's separate flexible energy storage and charging system offers flexible configurations, allowing adjustments in storage capacity and terminal count to meet varying scale and functional requirements. It alleviates peak charging pressure and improves operational efficiency. The system's scalability optimizes resource use and enhances station profitability.

### Application



Highway charging stations



Electric bus charging stations

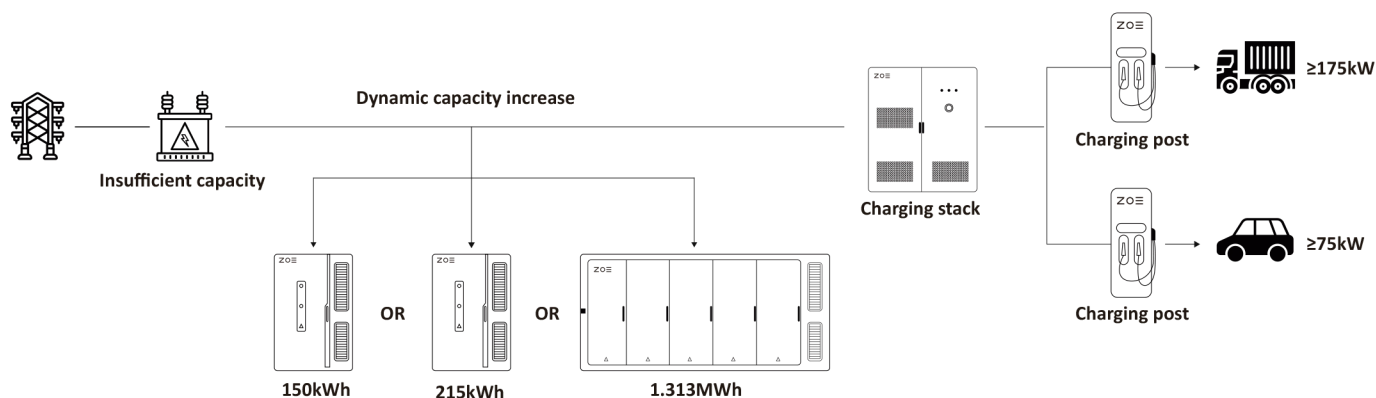


Electric truck and fleet charging stations



Renewable energy integrated charging stations

### Solution



### Feature

- Flexible system solution
- Over-allocate the transformer capacity by 2-5 times



[www.zoeess.com](http://www.zoeess.com)

## About ZOE Energy Storage

Headquartered in Shanghai, ZOE integrates R&D, manufacturing, and operations in energy storage, with factories producing 4 GWh annually.

ZOE's focus on advancing storage technology ensures sustainable and scalable energy solutions.

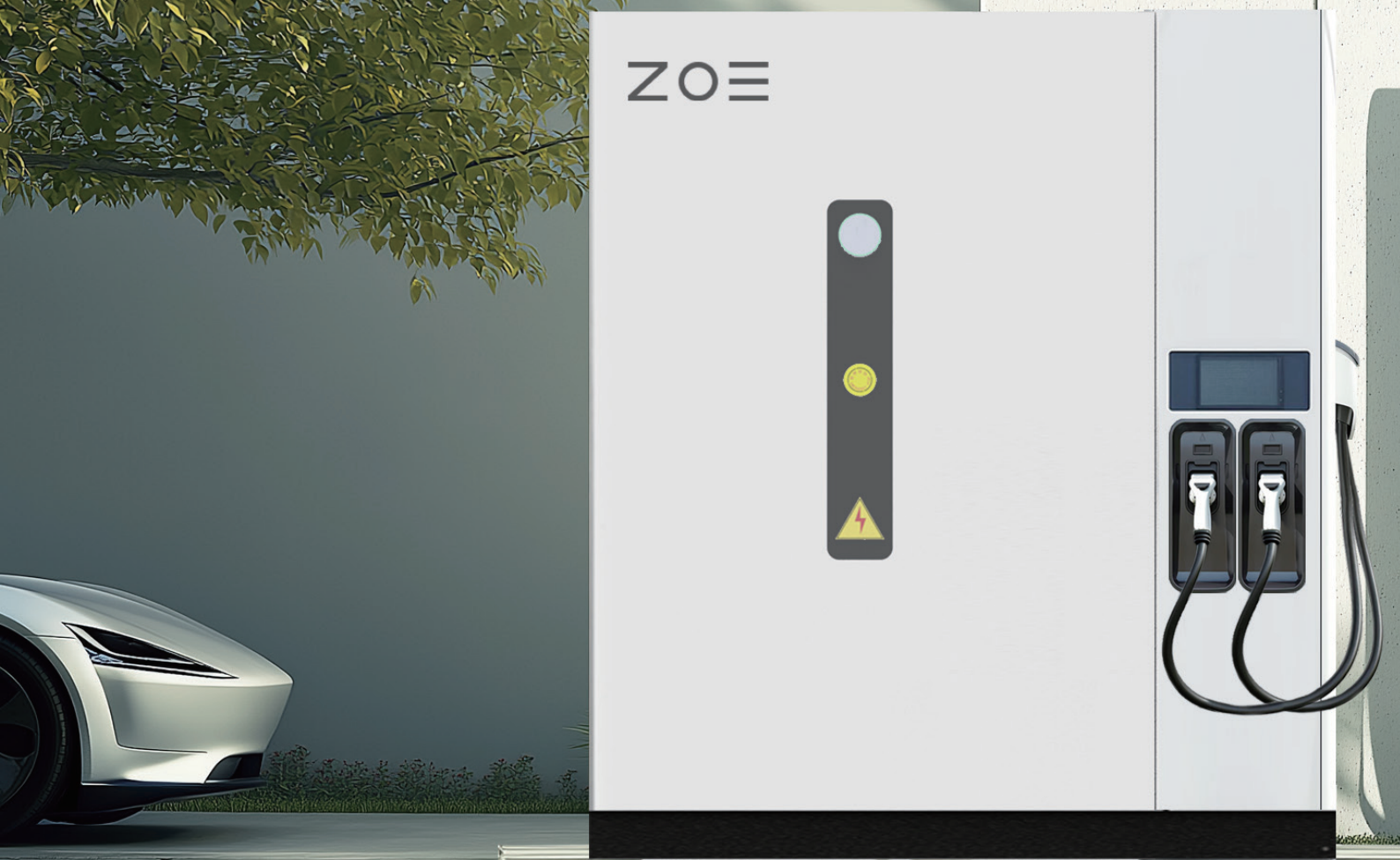
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ZOE ENERGY STORAGE TECHNOLOGY CO., LTD.



# Battery-integrated DC Fast EV Charger



**Basic Parameter**

Model	218kWh/180kW
Payment system	RFID,mobile,credit card
Communication	OCPP1.6J/2.0

**Energy-Storage-System Parameter**

Battery capacity	218kWh (LFP)
Rated voltage	DC768V
Operating voltage range	DC672V~864V
Battery charge and discharge rate	1C
Battery cooling and heating	Liquid-cooled, Liquid-heated
Fire suppression system	Aerosol

**EV Charger Parameter**

Connectors	2
Max.recharge power	DC Max.180kW
Cable	300A, 5m, CCS2
Charging voltage	300-1000V
Cable cooling	Air-cooled

**Grid Charging Parameter**

Grid voltage range	3W/N+PE 400Vac (-20%~+15%)
Grid charging power	105kW
Grid maximum charging power	110kW
Rated grid frequency	50/60Hz
Total harmonic distortion rate of current	≤3% (full load)
Power factor	-0.99 ~ +0.99

**Environment Parameter**

Operating temperature (°C)	-20 ~ +50
Ambient temperature (°C)	-30 ~ +60
Humidity	≤95%
Altitude	≤2000m
Protection degree	IP54



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### OVERVIEW

ZOE series DC charger is a high-power DC distributed charger independently developed by ZOE. 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 ZOE distributed charger can realize the flexible power distribution among the connectors.

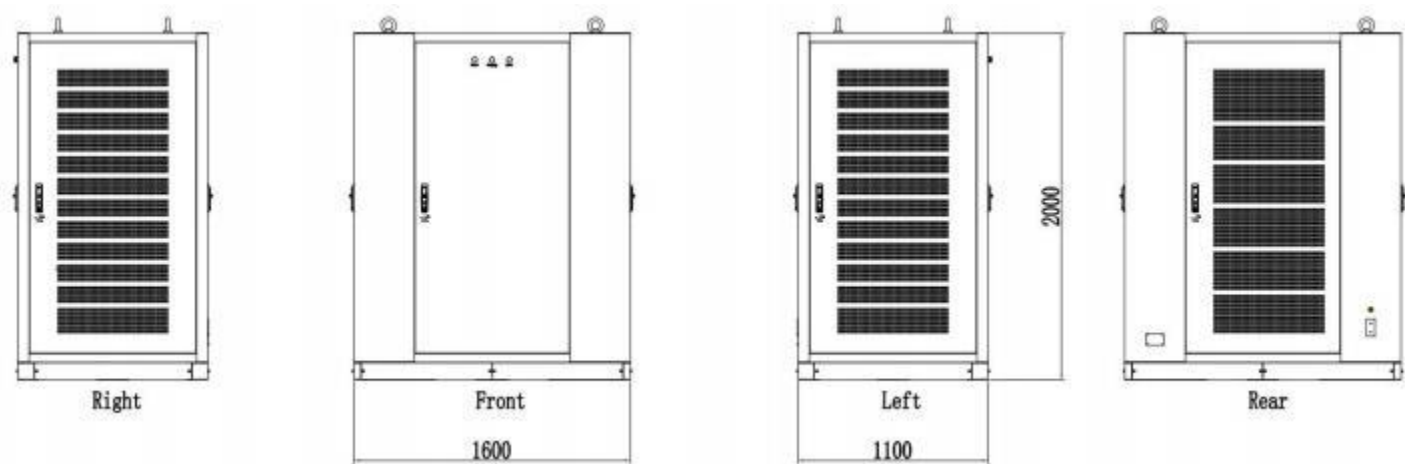
ZOE series charger can provide liquid cooling and air cooling User Terminal, as well as CCS2 and CHA charging standard. The charger can meet the charging demand of larger capacity and high endurance from electric vehicle on the market. ZOE series charger adopts modular design, and has multiple protections, 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.





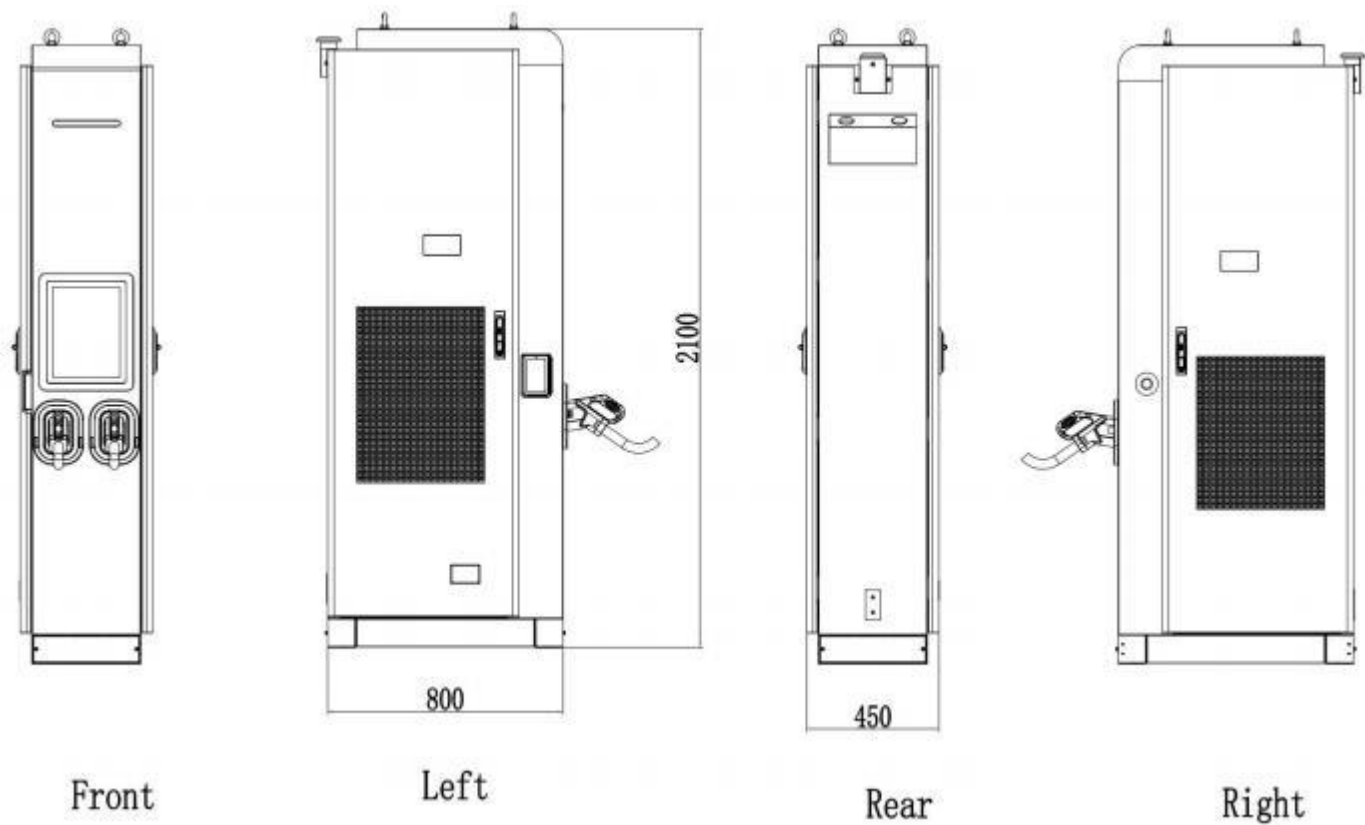
Dimensions

Power bank



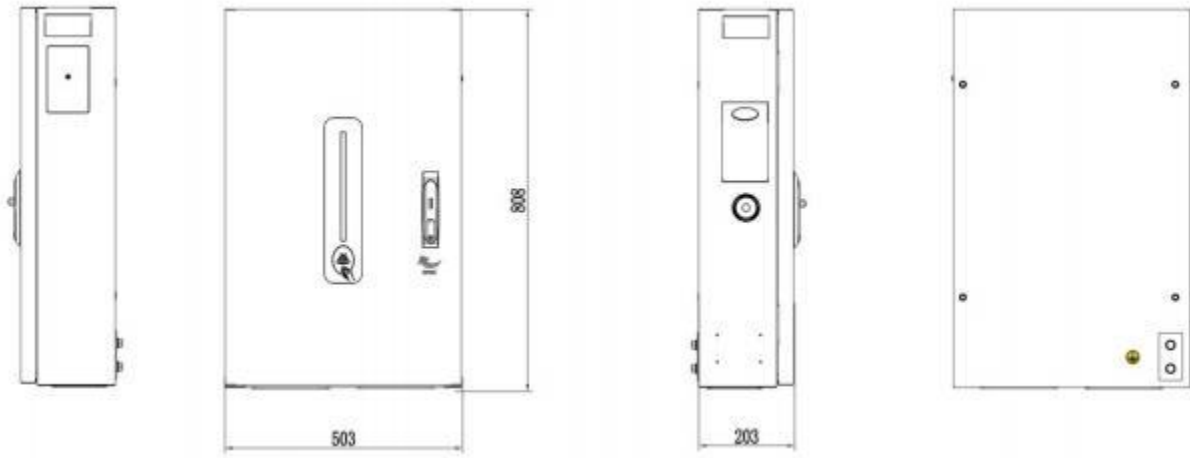
W1600\*D1100\*2000mm

User unit 1



W450\*D800\*2100mm

## User unit 2



**W500\*D200\*800mm**

# Specifications

480kW Distributed Charger		
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.
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
	Peak efficiency	≥96% (Full load)
	THDi	<5%
	Weight	≤900 kg
	Emergency button	Yes
	Grounding type	TN-S, TT
Dual-connector 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 for normal terminal): 350A; CCS2(liquid cooling): 500A; CHAdeMO: 125A;
	Cable length	5m
	Screen	15" HD touchscreen
	Dimensions	W450mm*D800mm*H2100mm
	Load sharing	Flexible load distribution according to user requirement
	Incremental unit for output power distribution	40kW
	Payment method	RFID/APP(Credit card/NFC is optional)
	Peak efficiency	96%
	Communication interface	4G / LAN Port



	Language	English (Support customizing other languages)
	Communication protocol	OCPP1.6J
	Cooling method	Air/liquid cooled
	Optional functions	Tilt detection, flood detection, smoke detection, heater, cable management
	Emergency button	Yes
<b>Slim Terminal</b>	Connector options	CCS2
	Number of connectors	6 (at most)
	Output voltage	200~ 1000V
	Constant voltage range	300~ 1000V
	Maximum current per connector	CCS2(conventional cooling for slim terminal): 200A;
	Cable length	5m
	Dimensions	W500mm*D200mm*H800mm
	Payment method	RFID/APP
	Communication protocol	OCPP1.6J
	Cooling method	Air cooled
<b>Standards and Certifications</b>	Standards	IEC 61851-1, IEC 61851-23, IEC 61851-21-2, ISO 15118
	Certifications Mark	CE, TUV