

ESC 200/160/120 DC CHARGING STATION

40KW INPUT & 200KW OUTPUT WITH 186 KWH BATTERY

The ESC200 is a dual-connector DC charger with an integrated energy storage function. It offers peak charging power of up to 200kW, while only 40kW input power is required with a 186kWh battery capacity. The ESC200 can be easily connected to existing grid connections via Plug & Play, eliminating the need for costly construction and complex grid connections. It can be set up wherever and whenever it is needed, allowing users to charge their electric vehicles without the need for a grid upgrade.



Disadvantage of Traditional Fast DC Charger

High costs of upgrading existing grid

- Electrical grid upgrade is extremely expensive and need the long-time permission for CPO company.

Engineering works complexity

- The civil works and grid connection are complex.

High Output & Low Input

- 2 chargers up to 200kW DC maximum output and only need 40kW AC input

High Economic

- Lower installation and power-expansion costs and higher charging revenues from peak and valley tariffs

Flexible Charging

- Easy to install and remove by Plug & Play

Safety and Intelligent

- Intelligent EMS strategies and other comprehensive electrical and mechanical protection features ensure your charging safety



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CHARGING STATION

Model	ESC 200	ESC 160	ESC 120
Energy Storage			
Battery Capacity	186 kWh	186/139 kWh	139 kWh
Energy Chemistry	LFP		
Max. recharge Power	40 Kw		
Battery Efficiency	≥94.5% in normal situations		
Output/charge point			
Supported Connector Types	CCS1 / CCS2 / CHAdeMO / GB/T		
Connectors	2		
Charging Power (DC)	200 kW	160kW	120 kW
Voltage	200 - 1000 Vdc		
Output Efficiency	≥95% (20~100% Load)		
Cable	250A, 5m (7m Optional)		
Input/power connection			
Voltage	3Phase 400VAC ± 15%		
Power (AC)	≤40 kW		
Frequency	50 / 60 Hz ± 1%		
Max Current	63 A		
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Power (AC)	≤40 kW		
Frequency	50 / 60 Hz ± 1%		
Max Current	63 A		
Environmental Specification			
Installation Location	Outdoor		
Protection Rating	IP 55		
Operating Temperature	-20°C~50°C(over 45 °C derating)		
Noise Emission	≤ 65 dB(@ 3m 25°C)		
User Interface & Connectivity			
Connectivity	4G / Ethernet		
Communications	OCPP 1.6J, support update to OCPP 2.0.1		
User Interface	10.1" Touch screen ; Charging LED Indicators		
Credit Card Reader	Standard		
Payment/authorisation	RFID (ISO 14443 A/B), APP, Contactless NFC Customized		
Other Features			
Dimensions(h*w*d)	1.3*1.1*2.15 m		
Weight	≤1800 kg		
Cooling	Battery:Liquid cooling; Module:Fan cooling		
Standard Warranty	3 years, extend + 1 year / + 2 years		
Firmware Upgrade	Local (USB) / OTA		
Standard	CE & IEC		
Protection			
Multiple Protection	Overvoltage Protection, Undervoltage Protection, Overcurrent Protection, Over Temperature Protection, Grounding Protection, Surge Protection, Short Circuit Protection, Fault Self-check, Insulation Detection and Other Multiple Protection Functions.		