



## Product Overview

XCHARGE Net Zero Series Product integrates Energy-storage-system (ESS), which uses Li-ion batteries as energy storage devices. ESS with its local or remote EMS management system enables optimized energy supply and demands among grid, batteries and EVs, which is significantly applied in peak and valley power consumption as well as lack of grid power capacity. The integration with ESS demonstrates its advantages in high-Charging –Power with less input. XCHARGE ESS compact charger is with thin-wall design and suitable for parking station, commercial center and EV experience center. Modular design provides high stability, easy and simple operation possibility so that it can achieve flexible deployment and uniformed service. Automatic recognition of connector plug-in and automatic charging scheduling function make it user-friendly and improve charging efficiency.

## Product Features

- **Compact Design**  
Small footprint, thin-walled design, easy layout in parking area, high stability, easy and simple to operate, low noise, adapt for installation requirements of more parking stations.
- **High Power Output with Less Input**  
Charging power can be modularly extended to 60kW + 150kW (energy storage modules), which provides higher output than most of other superchargers on the market when input power is very limited; and power can be intelligent distributed among charging connectors according to the actual demands of charging vehicles.
- **Charging Experience Upgrade**  
Automatic recognition of charger connector plug-in, automatic charging scheduling, integrated LED system indication Battery capacity and charging status, improve experience and increase efficiency of charging while reducing charging time of single vehicle.
- **Flexible Extension**  
Support energy-storage module extension, achieve 2 x 233kW·h Battery Capacity, intelligent power module distribution, energy utilization with high efficiency, easy operation

## Application Scenario



# Technical Specification

Energy-storage-system integrated compact charging station 60KW+233KW·H ( ESS & Power extendable)

Basic Parameter	Product Series		Net Zero Series	
	Product Specification	Type	DC charging station	
		Dimension	2.3m*0.8m*2.35m (w*d*h)	
		Installation	Floor type	
		Material	Industrial Grade Alloy	
		Color	White weather-resistant coating	
	Energy-storage-system	Weight	3600kg	
		Battery Capacity	233kW·h / 2*233kW·h	
		Usable Energy (SAT)	208 kW·h/2*208 kW·h	
		Max. recharge Power	30kW/60kW	
		Battery charging Rate	≤0.5C	
		Battery discharge Rate	≤1C	
		Battery Efficiency	≥94.5% under 0.25C	
	Charging system	IP Ranking	IP65	
		Connectors	2	
		Power distribution	2 connectors intelligent distribution	
		Charging power	DC Max.150kW +30kW/60kW=180kW/210kW 60/90/120/150/210	
		Cable	200A, 5m, CCS2 (250A optional)	
Charging voltage		300V-1000V		
Meter	Efficiency	≥96.5%		
	AC side	AC meter		
	DC side	2-access DC meter		
Cooling system	Battery cooling	Liquid-cooled		
	Power modules	Air-cooled		
	Cable cooling	Air-cooled		
User Interface	Display size	19 Inch		
Payment System	RFID, credit card			
Connectivity	GSM & LTE & LAN			
Communication	OCPP 1.6J			

Environment parameter	Product Series		Net Zero Series
	Applicable site	Outdoors	
	Ambient temperature	-25°C-55°C (over 45°C derating)	
	Humidity	≤95%, No condensation	
	Altitude	≤2000m	
	Noise Emission	≤75dB under nominal situation	
	EMC Emission	Class B	
	Medium	No explosive hazardous, No toxic & harmful gases.	
	Interference	Without strong vibration and shock, no strong electromagnetic interference	

Input& Output	Product Series		Net Zero Series
	Input Voltage	3Phase 400VAC +/- 15%	
	Circuit breaker	Type A	
	Input Frequency	50Hz±1Hz	
	Output Voltage Range	150VDC-1000VDC	
	Constant-power voltage output range	300VDC-1000VDC	
	Nominal power output	150kW + 30kW/60kW	
	Current output	200A/250A CCS2 continuously	

Safety	Product Series		Net Zero Series
	Ip ranking	IP54 (System)	
Safety protection	Input protection, Overcurrent protection, Lightning protection, Over-temperature protection, output over-voltage protection, fan protection, short circuit protection, Emergency button, Flood protection, Ground protection, Dumping protection, Smoke protection		

Standard	Product Series		Net Zero Series
	Battery	IEC 62619, IEC61000	
System level	IEC 62619, IEC61851, IEC62477, IEC61000, ISO15118		

More Information:



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# XCHARGE

Electric Vehicle Charging Solution Provider