



## Product Overview

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. 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 Paramete	Product Series		Net Zero Series	
	Product Specification	Type	DC charging station	
		Dimension	2.3m*0.8m*2.25m (w*d*h)	
		Installation	Floor type	
		Material	Industrial Grade Alloy	
		Color	White weather-resistant coating	
		Weight	3000kg	
	Energy- storage-system	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 nominal situation	
	Charging system	IP Ranking	IP65	
		Connectors	2	
		Charging power	DC Max.150kW +30kW/60kW=180kW/210kW	
		Power distribution	2 connectors intelligent distribution	
		Charging voltage	300V~1000V	
		Efficiency	≥96.5%	
	Meter	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 Payment System Connectivity Communication	Display size	19 Inch		
		RFID, credit card		
		GSM & LTE & LAN & WLAN		
		OCPP 1.6J		

Enviro- nment 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	250A, 4P
	Input Frequency	50Hz±1Hz
	Output Voltage Range	150VDC~1000VDC
	Constant-power voltage output range	300VDC~1000VDC
	Nominal power output	150kW + 30kW/60kW
Current output	Max. 250A CCS2 continuously	

Safety	Product Series	Net Zero Series
	Ip ranking	IP54
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, vSmoke protection	

Standard	Product Series	Net Zero Series
	Battery Cell	IEC 62619, IEC62933
System level	IEC 62619, IEC61851, IEC62477, IEC15118	