

GEN2

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 stations, commercial centers, and charging hubs. 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-wall design, easy layout in parking area, high stability, easy and simple to operate, low noise.

**High Power Output With Less Input:**

Can provide higher output than most other superchargers on the market when input power is very limited.

**B2G Function:**

Using bidirectional ACDC power modules with 22kW/unit, Battery can realize to supply energy to grid with bidirectional modules when grid needs.

**Charging Experience Upgrade:**

Automatic recognition of charger connector plug-in, automatic charging scheduling, integrated LED system indication battery capacity.

**Flexible Extension:**

Support energy-storage module extension, achieve 2*233kWh battery capacity, intelligent power module distribution.

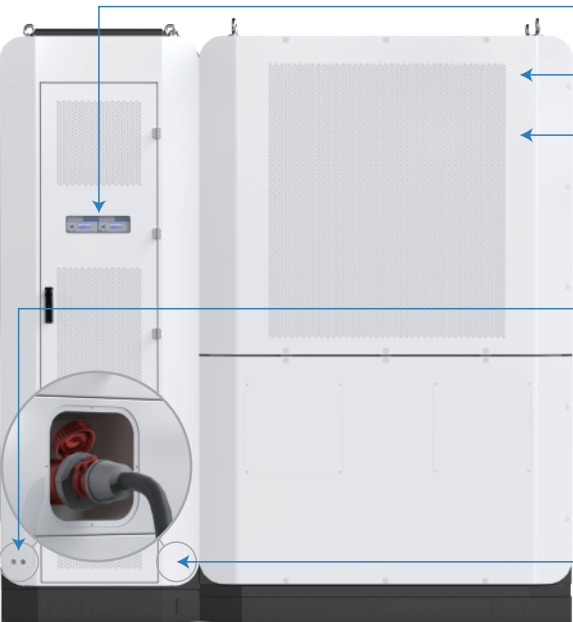
**Photovoltaics Function:**

An external DCDC power module with MPPT function makes Net Zero Series available to use photovoltaics energy up to 30kW.

System Overview



- 1 LED Illumination
- 2 LED Indicator of SOC
- 3 Featured 19-inch touchscreen
- 4 Credit card/RFID card reader
- 5 Scalable to 2*233kWh
233kWh liquid-cooled lithium-ion battery



- 6 Electricity meter
- 7 Noise level: ≤75dB
- 8 Operating temperature: -25°C~55°C (derating over 45°C)
- 9 Industrial socket
Easy and cost-saving installation
Plug for power supply
No need for extra grid capacity
- 10 Industrial socket (63A)
Send energy from battery to house load when blackout

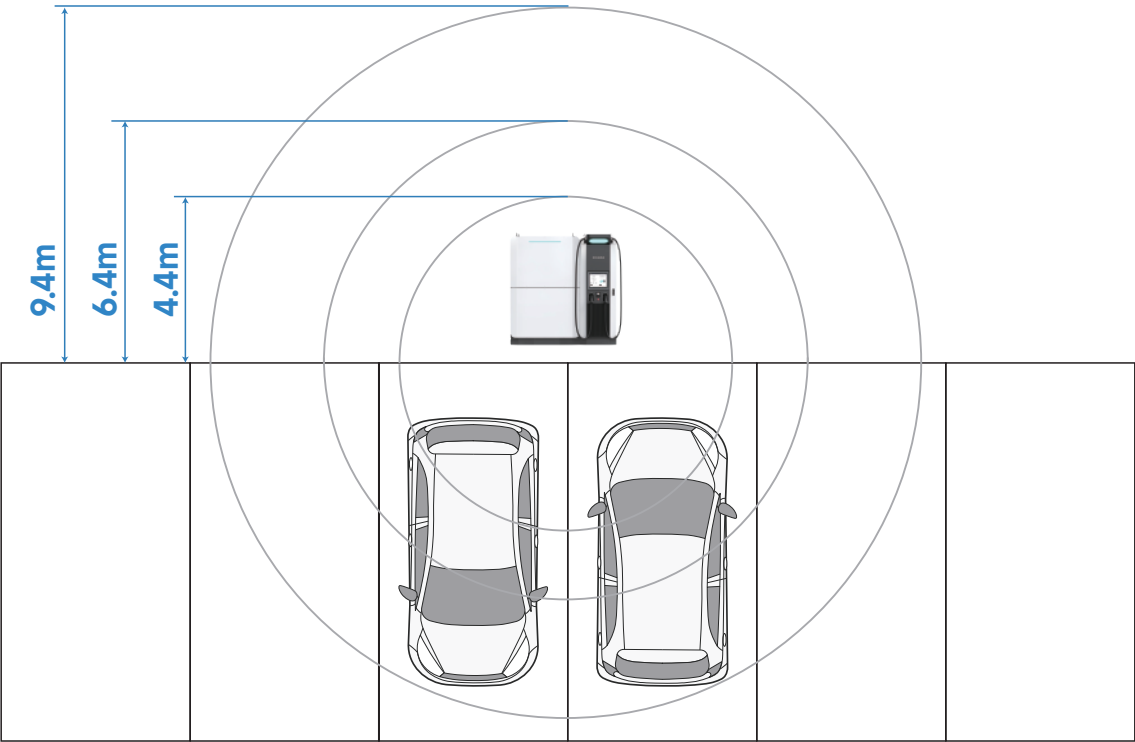
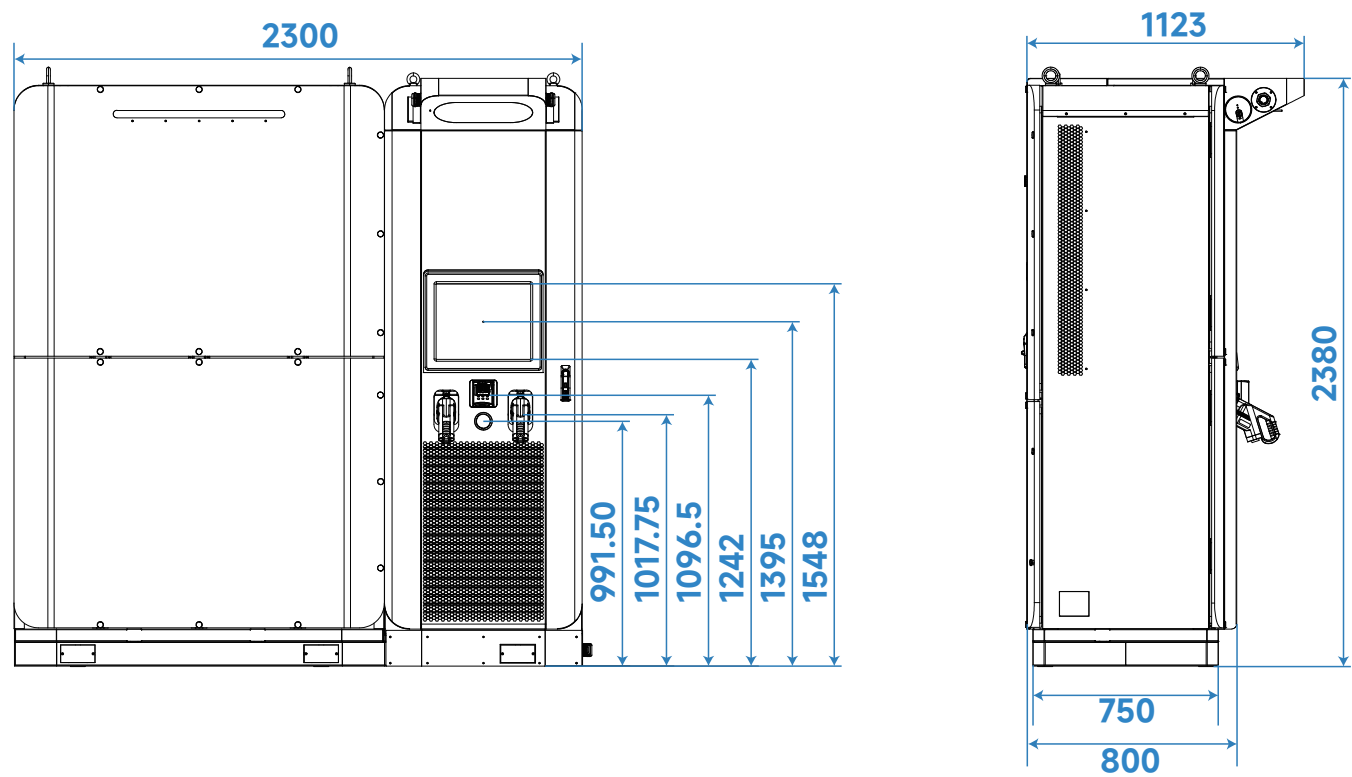
	DC Max.	Up To
GEN2	150 kW + 22 kW / 44 kW = 172 kW / 194 kW	194 kW

Technical Specification

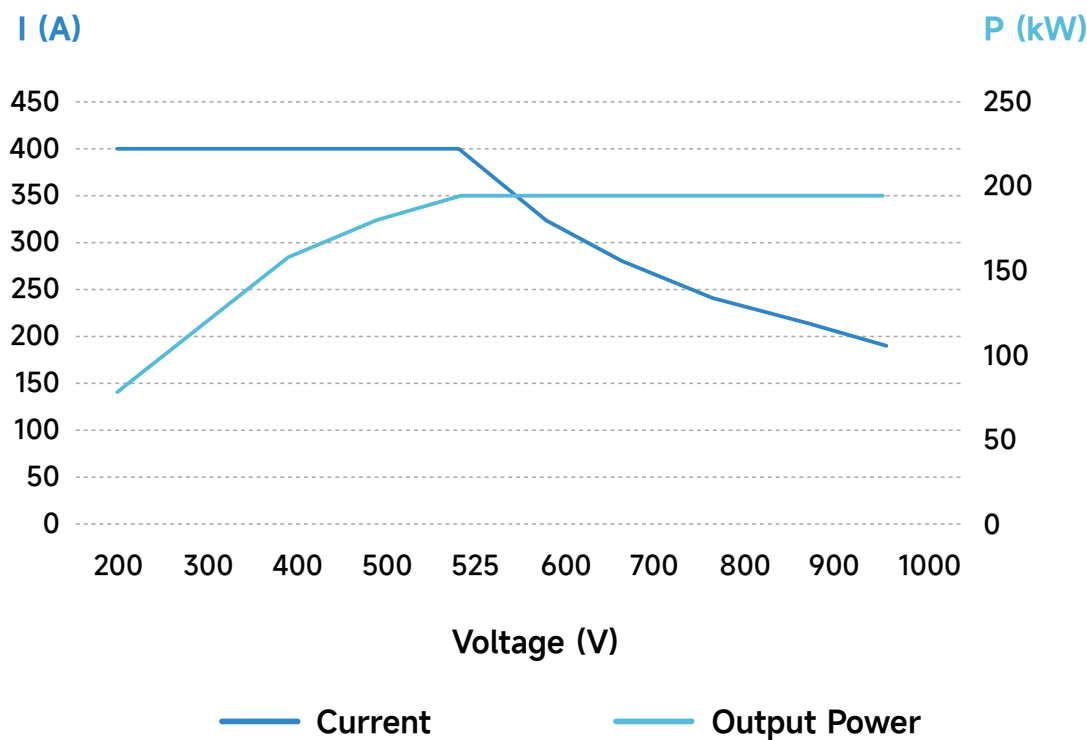
Net Zero Series			GEN2
Basic Parameter	Product Specification	Type	DC charging station
		Dimension(W*D*H)	2.3*0.8*2.38m (with base) / 2.3*0.8*2.25m (without base)
		Installation	On ground
		Material	Industrial Grade Alloy
		Color	White weather-resistant coating
		Weight	3600kg
	Energy-Storage-System	Battery Capacity	233kWh / 2*233kWh
		Usable Energy (SAT)	208kWh / 2*208kWh
		Max. recharge Power	30kW/60kW
		Battery Charging Rate	≤0.5C
		Battery Discharge Rate	≤1C
		Battery Efficiency	≥94.5% under normal situation
	Charging System	Connectors	2
		Power Distribution	2 connectors intelligent distribution
		Charging Power	DC Max.150kW + 22kW/44kW = 172kW/194kW
		Cable	250A CCS2 (400A for boost mode)
		Charging Voltage	150V~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	Display Size	19 Inch
	Payment System		RFID, credit card
	Connectivity		GSM & LTE & LAN
	Communication		OCPP 1.6J
	Photovoltaics Input		300-825 VDC, Max 30kW
	Output to Grid		22kVA/44kVA rated power
Environment Parameter	Applicable Site		Outdoors
	Ambient Temperature		-25°C~55°C (over 45°C derating)
	Humidity		≤95%, No condensation
	Altitude		≤2000m
	EMC Emission		Type A
	Medium		No explosive hazard, No toxic & harmful gases.
	Interference		Without strong vibration and shock, no strong electromagnetic interference
Input & Output	Input Voltage		3Phase 400VAC ± 10%
	Input Frequency		50Hz±1Hz
	Output Voltage Range		150VDC - 1000VDC
	Constant-Power Voltage Output Range		300VDC - 1000VDC
	Nominal Power Output		22kW / 44kW if needs B2G
	Current Output		250A CCS2 continuously
	Output to Grid		22kVA / 44kVA rated power (including auxiliary consumption)
Safety	Input Protection		Under-voltage protection, over-voltage protection, over-current protection, over-temperature protection, leakage protection, lightning protection, short circuit protection
	Output Protection		Short circuit protection, over-temperature protection, communication fault protection, leakage protection, over-current protection
	Emergency Protection		Set emergency stop button, leakage protection function, high-precision output insulation monitoring function
	Special Protection		IP54 protection level, anti-salt dew, moisture-proof, anti-toxic and anti-ultraviolet
Standard	Battery		IEC 62619, IEC61000
	System Level		IEC 62619, IEC61851, IEC62477, IEC61000, ISO15118

Mechanical Dimensions

Unit: mm



Output Power Curve



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