



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

GEN1

Compact Design:

Small footprint, thin-wall design, easy layout in parking area, high stability, easy and simple to operate, low noise.



Charging Experience Upgrade:

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



High Power Output With Less Input:

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



Flexible Extension:

Support energy-storage module extension, achieve 2x233kWh battery capacity, intelligent power module distribution.

GEN2

B2G Function:

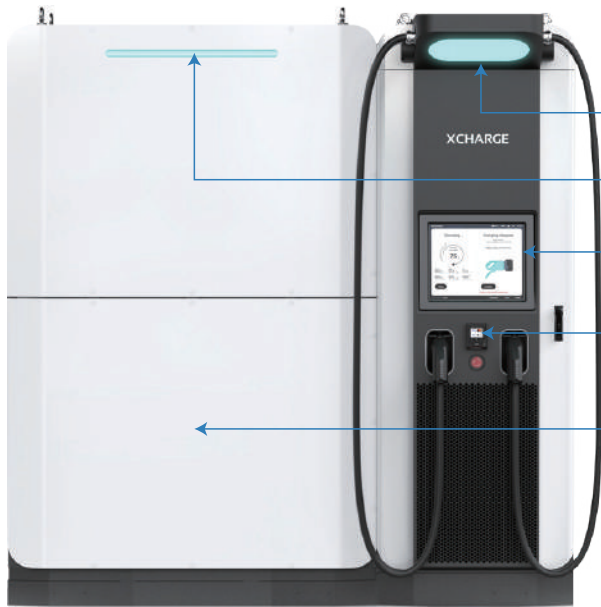
Using bidirectional ACDC power modules with 22kW/unit, Battery can realize to supply energy to Grid with bidirectional modules when Grid needs.



Photovoltaics Function:

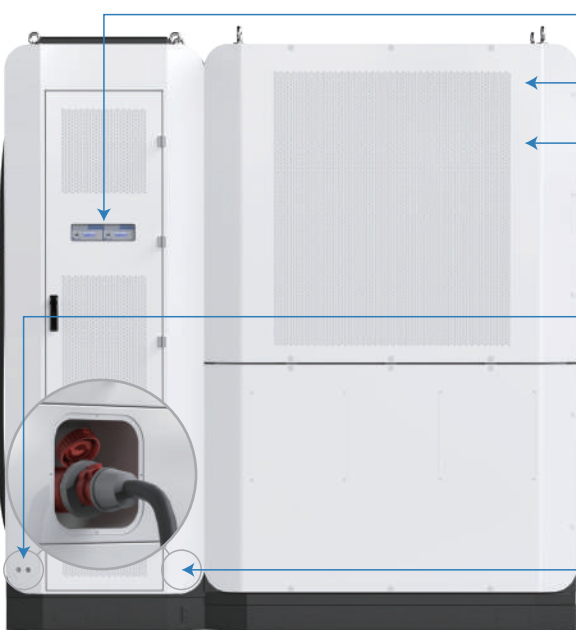
An external DCDC power module with MPPT function makes NZS available to use photovoltaics energy up to 30kW.

System Overview



GEN1 Basic Features

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



- 6 Electricity meter
- 7 Noise level: ≤ 75 dB
- 8 Operating temperature: -25°C - 55°C (derating over 45°C)
- 9 Industrial socket
Easy and cost-saving installation
Plug and charge
No need for extra grid capacity

GEN2 Newly Increased

- 10 Industrial socket (63A)
Send energy from battery to house load when blackout

| Power Range | DC Max. | Up To |
|-------------|-------------------------------------|-------|
| GEN1 | 150kW + 30kW / 60kW = 180kW / 210kW | 210kW |
| GEN2 | 150kW + 22kW / 44kW = 172kW / 194kW | 194kW |



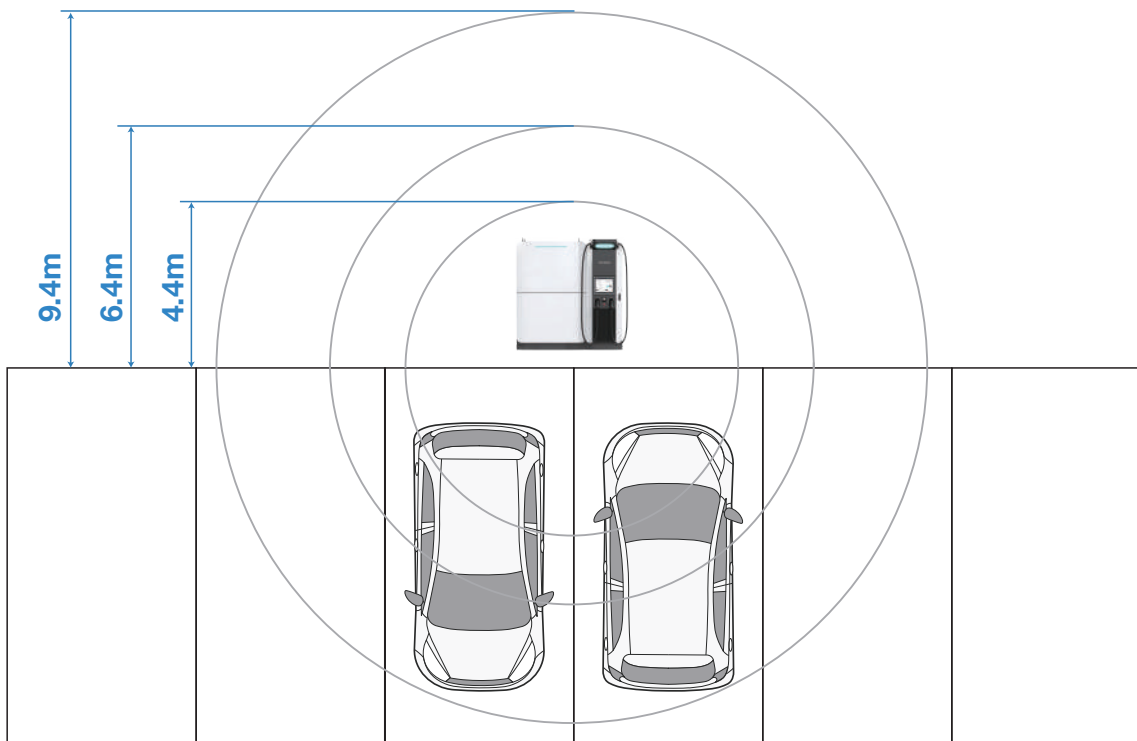
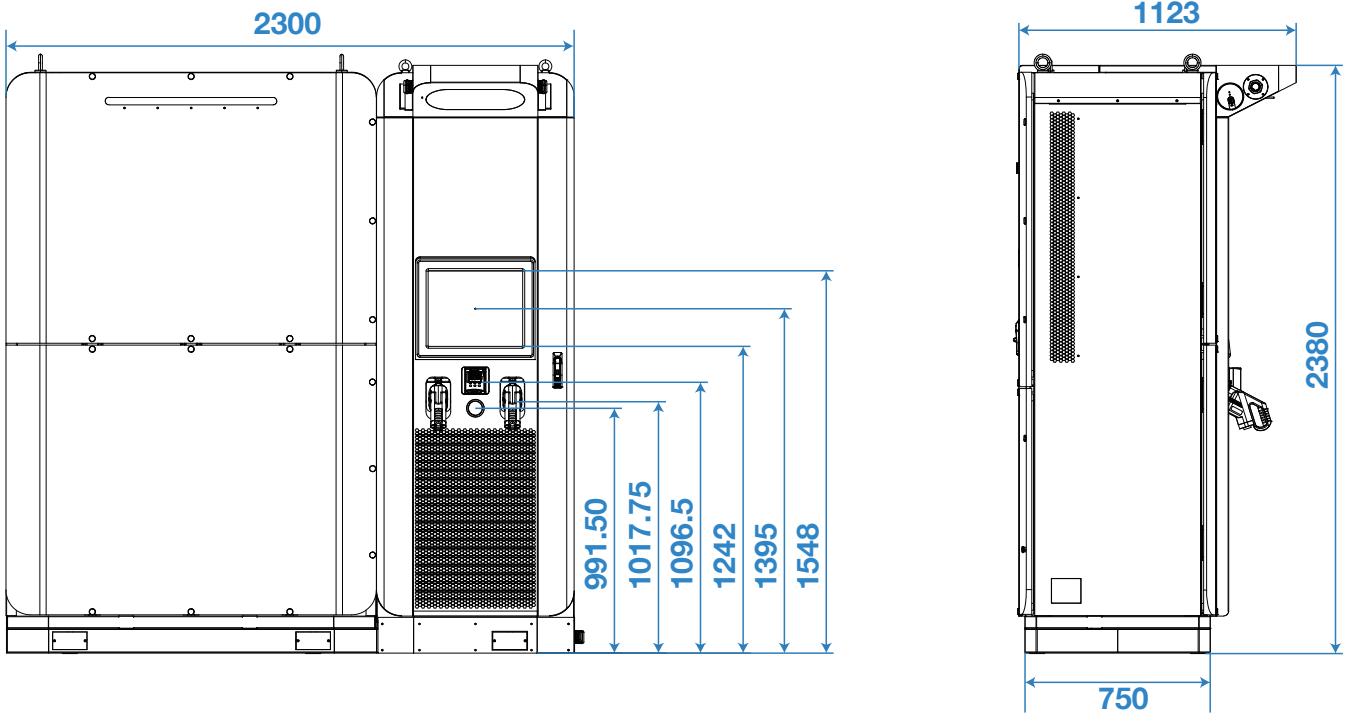
Technical Specification

| Net Zero Series | | (GEN1) | (GEN2) | |
|-----------------------|-------------------------------------|---|---------------------------------------|-------------------------------------|
| Basic Parameter | Product Specification | Type | DC charging station | |
| | | Dimension | 2.3*0.75*2.38m (w*d*h) | |
| | | 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) | 208 kWh/2*208 kWh | |
| | | Max. recharge Power | 30kW/60kW | |
| | | Battery Charging Rate | ≤0.5C | |
| | | Battery Discharge Rate | ≤1C | |
| | | Battery Efficiency | ≥94.5% under nominal situation | |
| | | IP Ranking | IP65 | |
| | Charging System | Connectors | 2 | |
| | | Power Distribution | 2 connectors intelligent distribution | |
| | | Charging Power | DC Max.150kW+30kW /60kW=180kW/210kW | DC Max.150kW+22kW /44kW=172kW/194kW |
| | | Cable | 200A, 5m, CCS2 (250A optional) | |
| | | 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 | 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-50°C (over 45°C derating) | | |
| | Humidity | ≤95%, No condensation | | |
| | Altitude | ≤2000m | | |
| | EMC Emission | Type A | | |
| | Medium | No explosive hazardous, No toxic & harmful gases. | | |
| | Interference | Without strong vibration and shock, no strong electromagnetic interference | | |
| Input & Output | Input Voltage | 3Phase 400VAC ± 15% | | |
| | Circuit Breaker | 125A, 4P | | |
| | Input Frequency | 50Hz±1Hz | | |
| | Output Voltage Range | 150VDC-1000VDC | | |
| | Constant-Power Voltage Output Range | 300VDC-1000VDC | | |
| | Nominal Power Output | 150kW + 30kW/60kW (22kW/44kW if needs B2G) | | |
| | Current Output | 200A/250A CCS2 continuously | | |
| | Output to Grid (Indevelopment) | 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 | | |



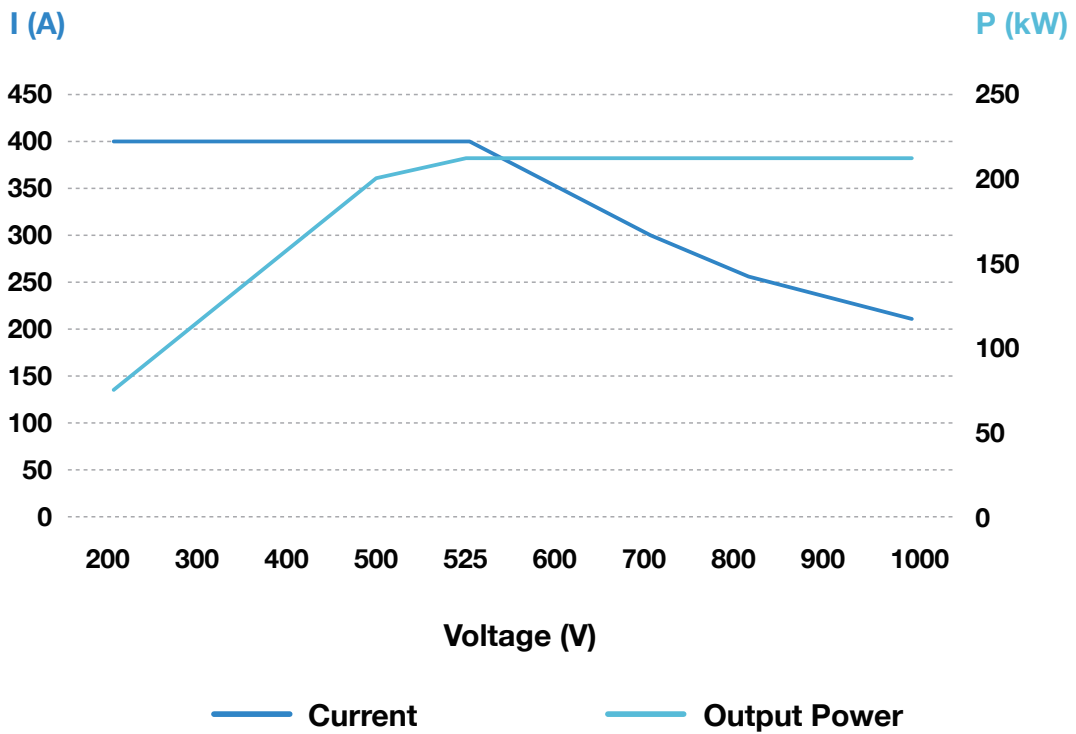
Mechanical Dimensions

Unit: mm

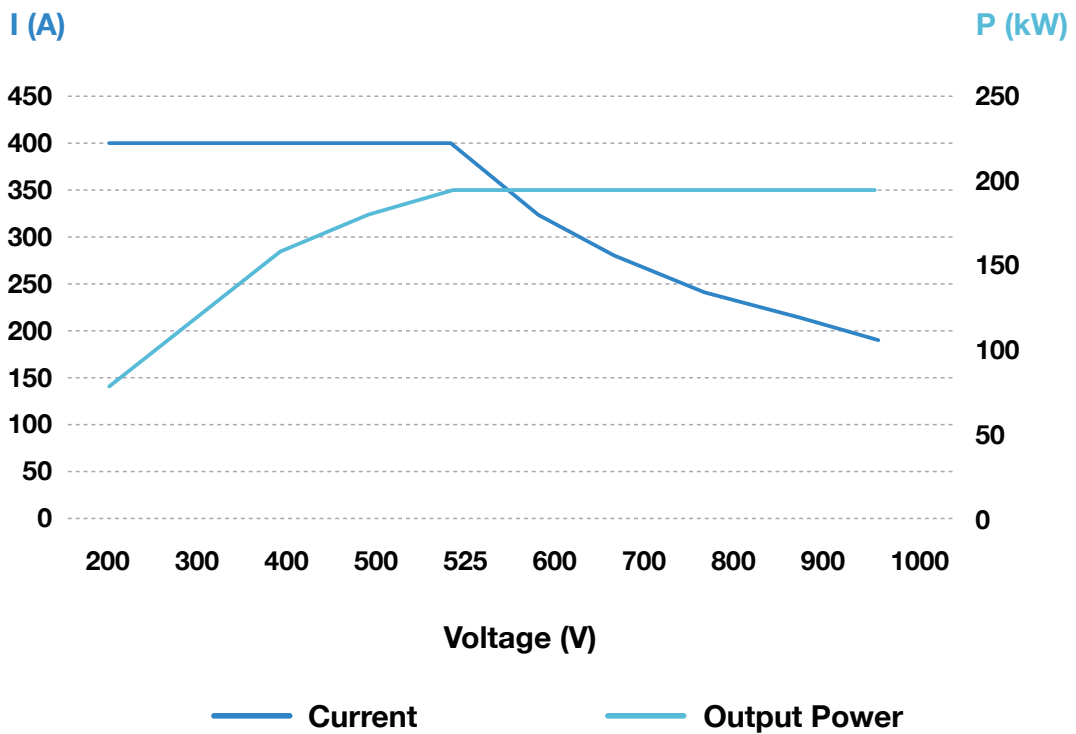


Output Power Curve

GEN1



GEN2



MORE INFORMATION:

<https://3CHARGY.com>

