MPack 233C

Cabinet Fast Charging Solution

MPack 233C is a high-performance energy storage solution for commercial and industrial use, featuring optimized thermal management, efficient energy cycling, advanced fire and gas detection, and intelligent power management for reliable and scalable energy integration.

Product Function

Stable & Reliable Performance

Featuring a 233kWh energy storage system, it delivers consistent power even during grid instability. An advanced thermal management system ensures efficient heat dissipation, enabling long-term stable operation.

Intelligent Management System

Supports remote operation and real-time monitoring for easier maintenance and control. It also logs detailed charging data, helping operators optimize energy usage and refine charging strategies.

Energy-Efficient & Eco-Friendly:

High-efficiency power conversion minimizes energy loss and lowers costs. Compatible with solar, wind, and supports CCS1 plus NACS charging interfaces for versatile EV integration and sustainability.

Enhanced User Experience

Designed with user convenience in mind, it features an intuitive interface and supports multiple payment methods. Built-in protections like over-voltage and over-current safeguards ensure a safe and reliable charging experience.

Space-Saving Design

The dual-gun charger adopts a compact design that conserves installation space, making it ideal for various application scenarios including urban and commercial environments.

Cost-Effective Operation

Its high charging efficiency reduces power loss, improving overall energy utilization. Intelligent system control and optimized cooling also extend equipment lifespan, further reducing long-term operational costs.

Product Features

High-Power Fast Charging

Delivers up to 400kW for ultra-fast EV charging and supports dual-vehicle charging to improve efficiency and reduce wait times.

Integrated Energy Storage & Off-Grid Power

Features a 233kWh battery system that provides backup power during grid outages or peak hours, ensuring continuous charging even when off-grid.

Comprehensive Safety Protection

Equipped with over-voltage, over-current, over-temperature, and short-circuit protection, plus insulation monitoring and emergency stop for maximum safety.

Smart Data Tracking & Energy Analysis

Automatically records detailed charging data, including energy usage, duration, and cost, for both users and operators. It also offers energy consumption reports to help optimize the operation and efficiency of the charging station.

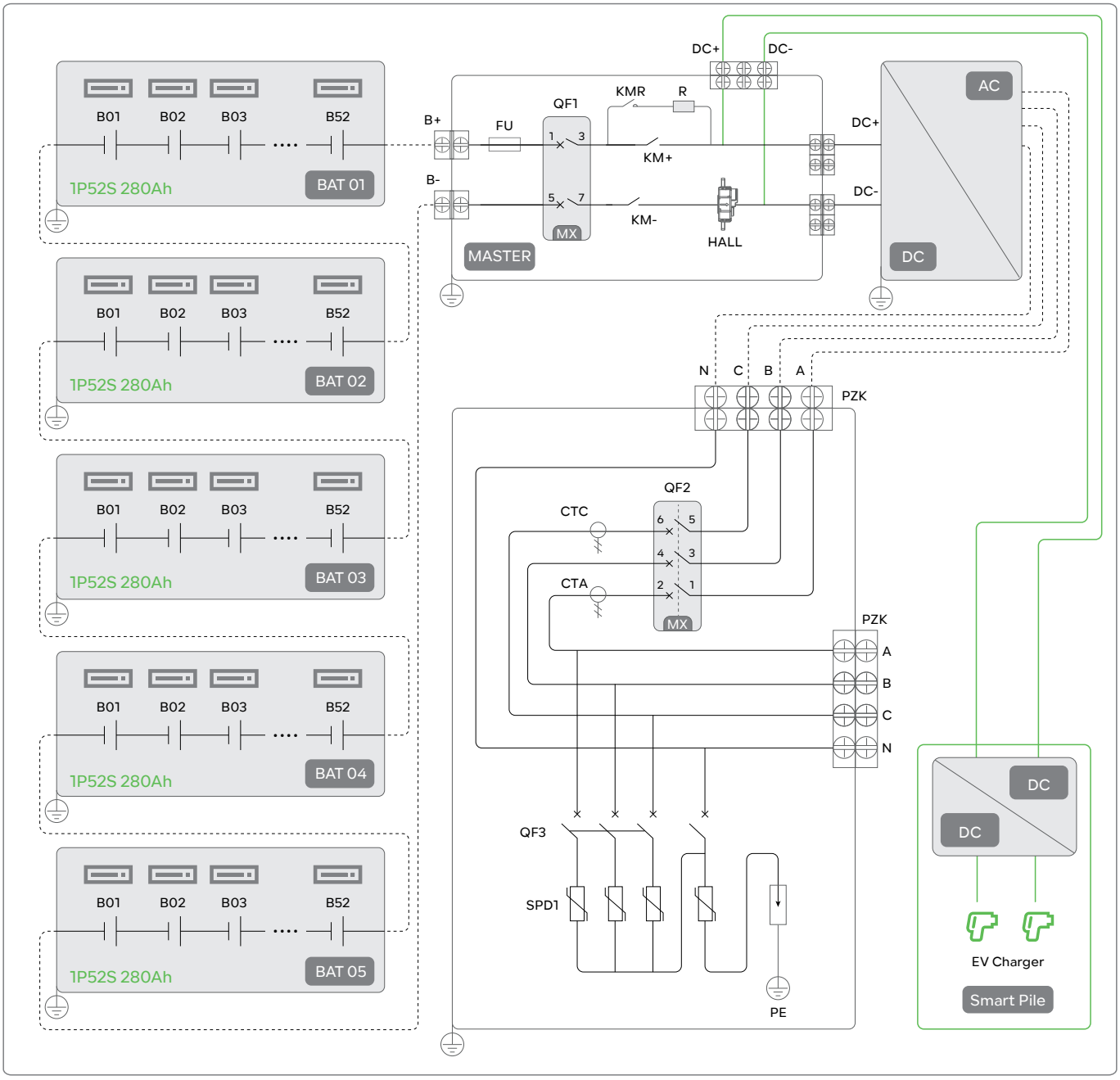
Application Scenario


PARKING LOTS

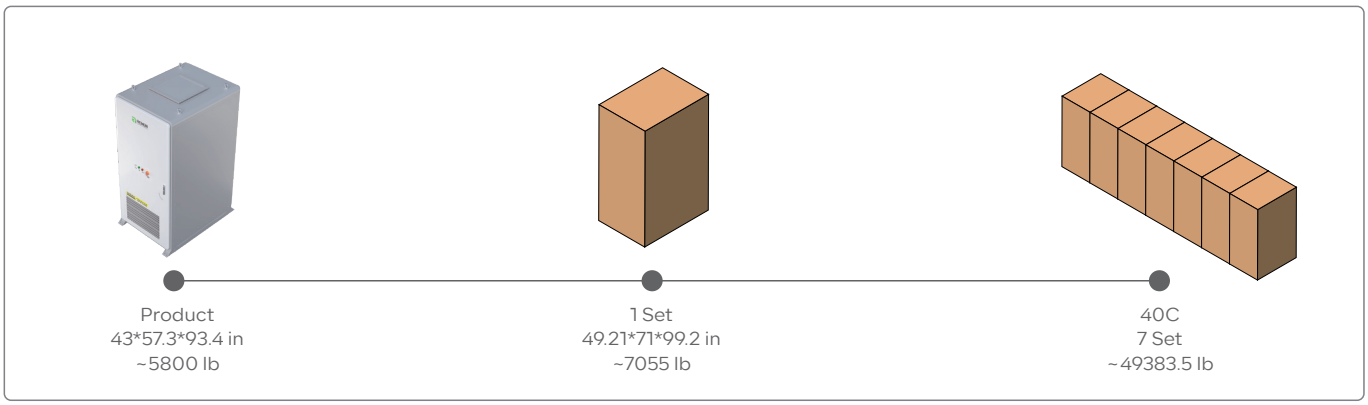

RETAIL


CHARGING STATIONS

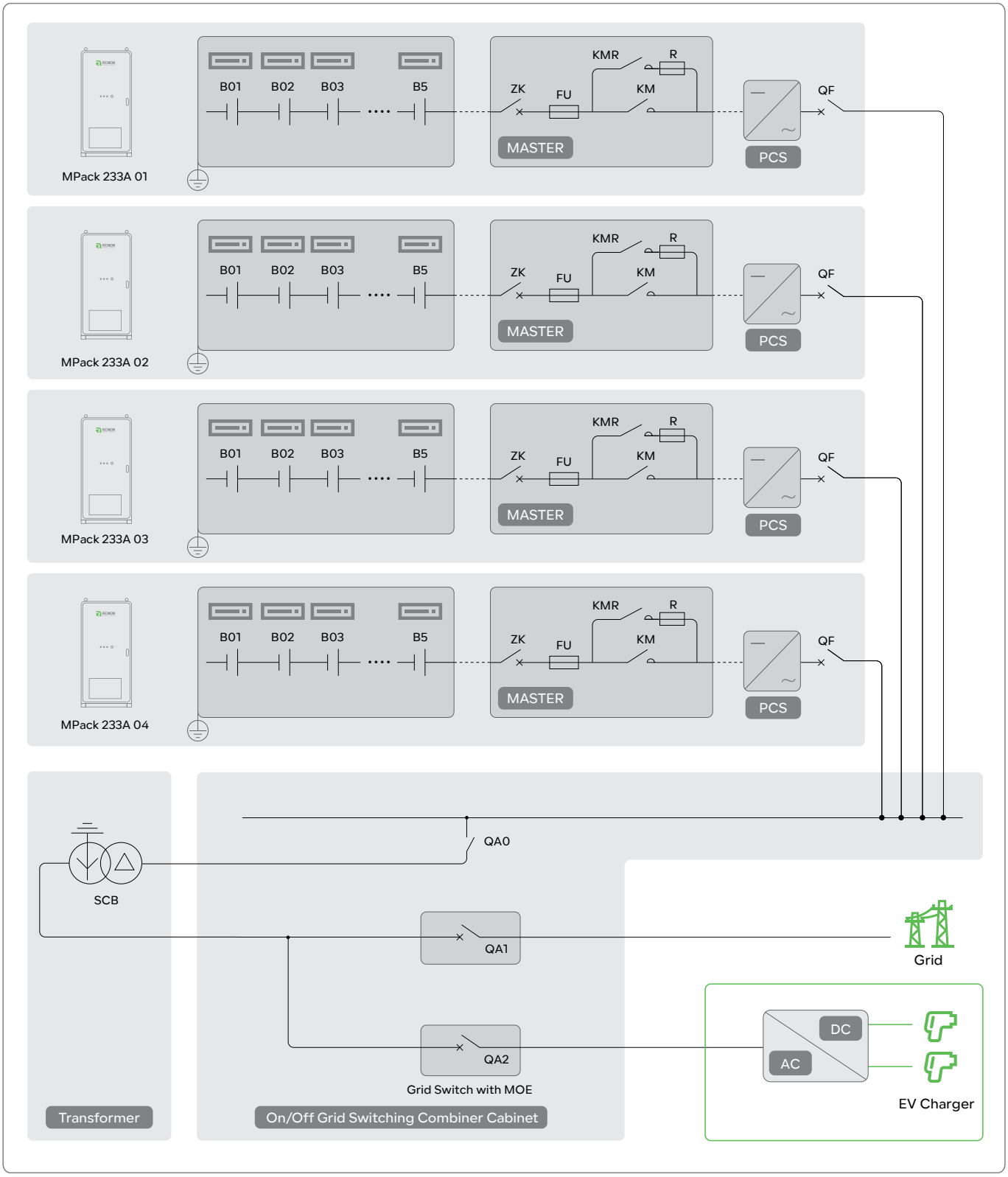
Product Topology(DC Coupling)



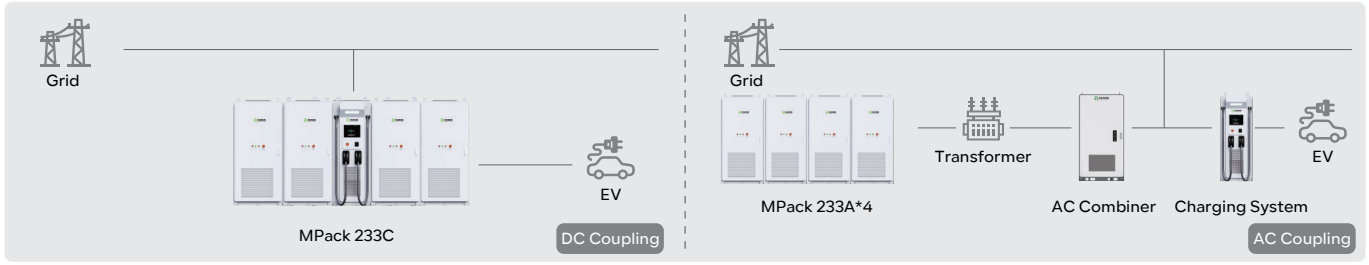
Packaging & Shipping Details

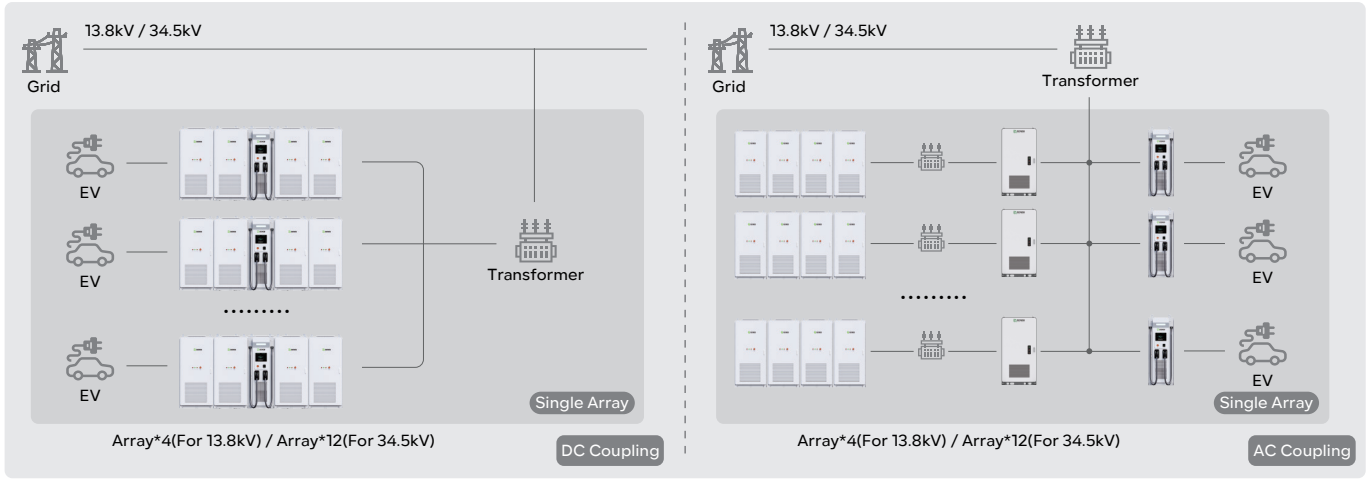


Product Topology(AC Coupling)

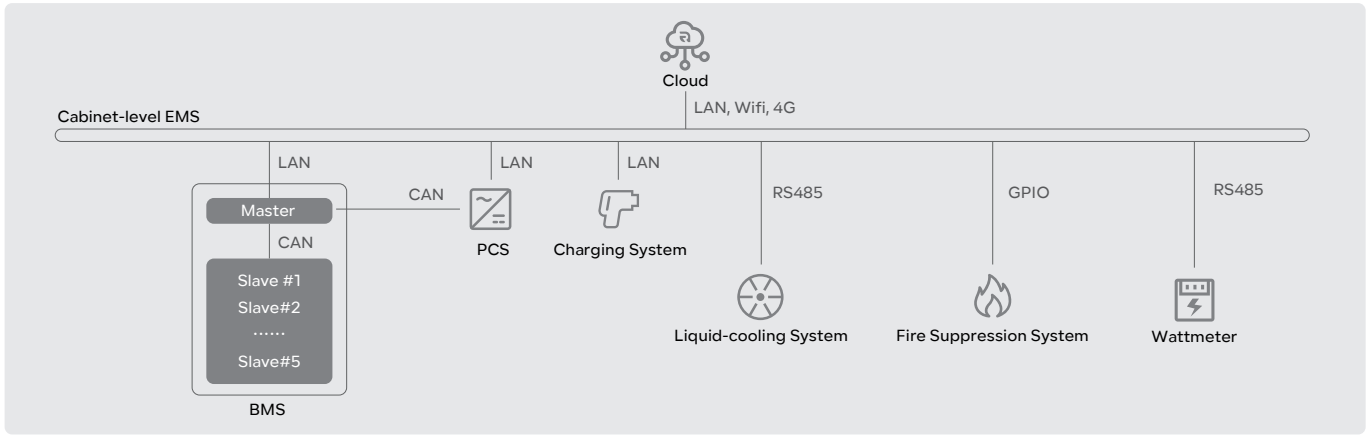


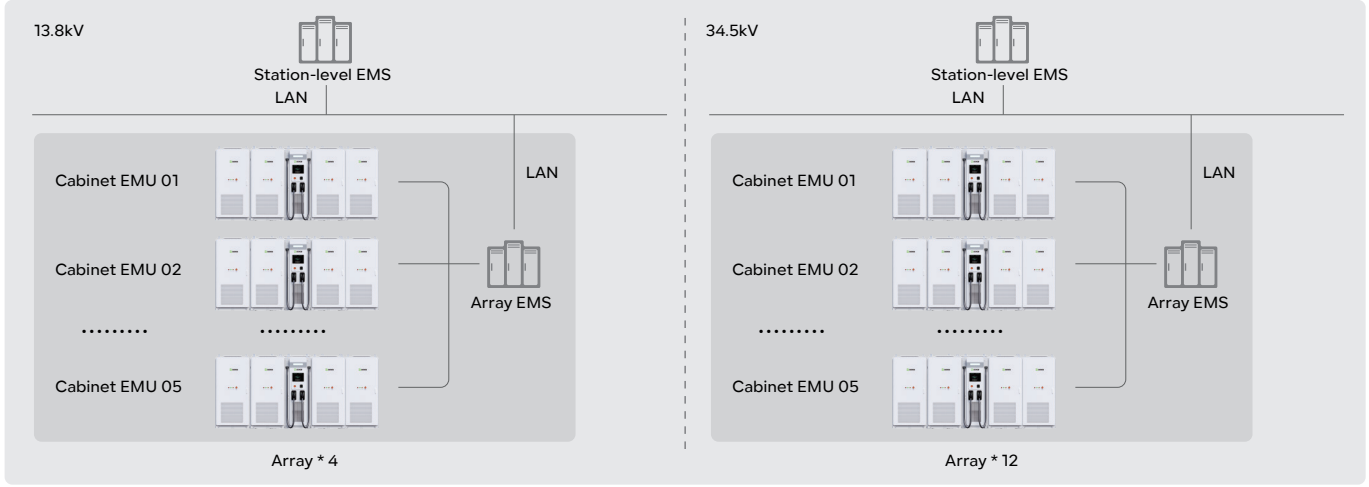
Single / Max. Parallel System Layout





Energy Management System(EMS) Structure





BESS Parameter

Battery Energy Storage	MPack 233C	MPack 466C	MPack 699C	MPack 932C
Battery Capacity(kWh)	233	466	699	932
Battery Charge/Discharge Rate	≤0.5C			
Battery Efficiency	≤95%			
Battery Module IP Rating	IP54			
Battery Cooling System	Liquid-cooling			
Thermal Control Management	Aerosol Extinguishing			

AC Output				
Rated AC Output Power(kW)	125	250	375	500
Max. AC Output Power(kVA)	137.5	275	412.5	550
Rated Output Voltage(Vac)	480			
Output Voltage Range(Vac)	-15%~10%(Settable)			
Rated Grid Frequency(Hz)	60(Settable)			
Max. Output Current(A)	165.4	330.8	496.2	661.6
Adjustable Power Factor	>0.99			
THDi	<3%			

DC/DC				
Max. Charge/discharge Power (kW)	250	500	750	1000
Voltage Range for Charge/discharge (Vdc)	761~923			
Max. Current (A)	320	576	864	1152

* The charging power of the DC interface is related to the load power, battery SOC and temperature.The discharge power of the DC interface is related to the battery's state of charge

System Characteristic	
Communication Interface	CAN, RS485, WiFi, LTE
Warranty	3 years free, paid from the 4th to the 15th year
Certifications	ANSI/CAN/UL 1973:2022, ANSI/CAN/UL 9540:2020, UL 9540A:2019, UL 1741:2012 Ed.3+R:19May2023, UL 1741:2021 Ed.3(Supplement SB), CSA C22.2#107.1:2016 Ed.4+U1, IEEE 1547:2018 IEEE 1547.1:2020, FCC Part 15 Subpart B:2013

General Parameters				
Battery Model	R-MP233125C1-US	R-MP466250C1-US	R-MP699375C1-US	R-MP932500C1-US
Dimensions - W*D*H (in)	~86*57*91.3	~129*57*91.3	~172*57*91.3	~215*57*91.3
Total Weight (lb)	8124(±11)	14429(±11)	20734(±11)	27039(±11)
Operation Altitude	≤2000m / 6561ft			
Noise Level @1m	<80 dB(A)			
IP Rating	IP54			
Operating Temperature (°C/°F)	-20~55/-4~131*			
Operating Humidity (RH)	0 to 95%, non-condensation			
Storage Conditions	-20~30°C/-4~86°F, Up to 95% RH, non-condensation, State of Energy (SoE): 50% initial			

* We can offer a wider range of temperatures if required, please speak to one of our sales colleagues.

Charging System Parameter

Power Input	
Input Voltage(V)	832(600~1500)
Rated Current(A)	495

Power Output	
DC Voltage(Vdc)	200~1000
Max. Current(A)	400
Max. Power(kW)	400
Efficiency	>97%
Voltage Stabilized Accuracy	≤±0.5%
Current Stabilized Accuracy	≤±1%
Current Sharing Unbalance	≤±3%
Peak-peak Ripple	≤1%

Sturcture Design	
Installation Method	Floor-stand
Charging Outlet	DC CCS1, NACS
Cable Length	5.0m
LED Indicator	Yes
Authentication	RFD, On-screen PIN code authorization Option: payment terminal Autocharge Other Customization

Communication	
Charger v.s. EV	PLC(DIN 70121:2014-12/ISO15118)
Communication Protocol	OCPP 1.6J

Safety Protection	
Over/under Voltage Protection	Yes
Over Current Protection	Yes
Overload Protection	Yes
Short Circuit Protection	Yes
Leakage Protection	Yes
Over Temperature Protection	Yes
Grounding Protection	Yes
Integrated Surge Protection	Yes

General Parameters	
Battery Model	R-SP400C01-US
Dimensions - W*D*H (in)	~43*35.4*91.3
Total Weight (lb)	~1818.8
Operating Temperature (°C/°F)	-30~50/-22~122
Humidity (RH)	5%~95%, non-condensation
Operation Altitude	≤2000m/6561ft
IP Rating	IP55
IK Rating	IK10(HMI: IK08)
Application Site	Indoor/Outdoor
Cooling Method	Air-cooling
Noise	<65dB(Ambient Temperature)