

ePump S240

ePump S480

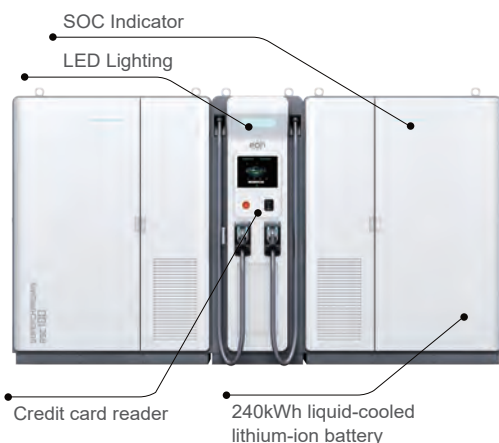
Stationary Battery-Buffered Ev Charging Systems

Scalable to 480kWh

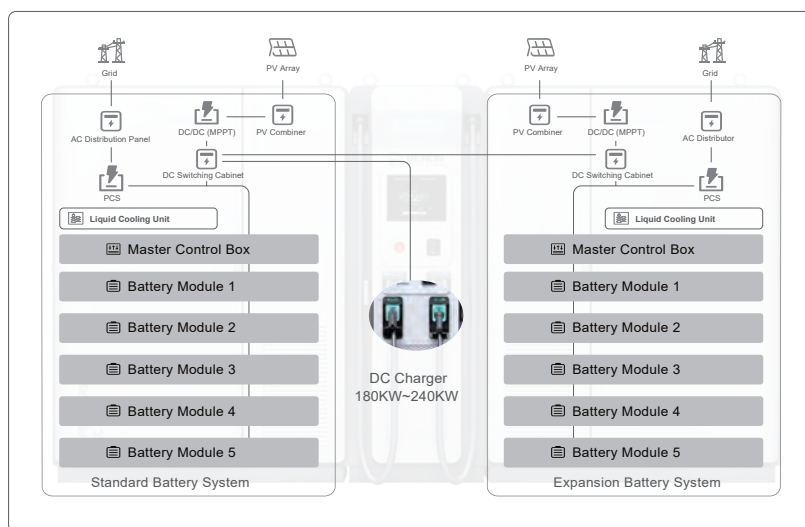
2*240kWh liquid-cooled lithium-ion batteries



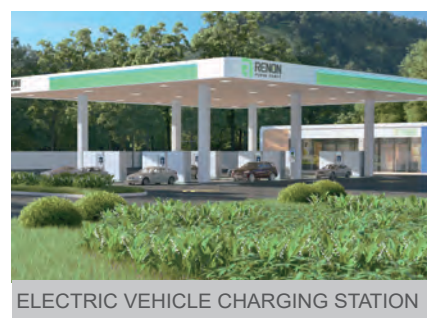
System Overview



System Layout



Application Scenario



Product Specification		S240	S480
Type	DC Charging Station With ESS		
Installation	Ground Mount		
Applicable Site	Outdoors or Underground Parking		
Material	Industrial Grade Alloy		
Color	White Weather-Resistant Coating		
Dimensions (W*D*H)	2557*700*2350mm / 100x27.5x92.5in	4314*700*2350mm / 201.4x27.5x92.5in	
Weight	3850kg / 8487.8lb	7350kg / 16,204lb	
Energy Storage System			
Battery Capacity(kWh)	240	480	
Battery Charging Rate	≤0.5C		
Battery Discharge Rate	≤0.8C		
Battery Efficiency	≥97%		
Battery Module IP Rating	IP65		
Battery Cooling System	Liquid-Cooling		
Thermal Control Management	Aerosol Extinguishing		
AC Output			
Rated AC Output Power(kW)	125	250	
Max. AC Output Power(kVA)	137.5	275	
Rated Output Voltage(Vac)	480	480	
Output Voltage Range(Vac)	-15%~+10%(settable)		
Rated Grid Frequency(Hz)	60Hz(settable)		
Max. Output Current(A)	165.4	330.8	
Adjustable Power Factor	> 0.99		
THDi	< 3%		
PV Input			
DC Input Voltage(Vdc)	300~825(Start up Voltage:375)		
Max Input current(Adc)	100	200	
Rated Power(kW)	60	120	
Number of MPPT	2	4	
Cooling System	Air-cooled		
Standard			
Battery	UL9540A		
EV Charger	UL2202, FCC, EN 61851-1, EN 61851-23, EN 61000-2/-4		
System Level	UL 1973, UL9540A, UL9540, FCC, IEC 62619, EN62109-1/2, EN61000-6-2/4, UN38.3		
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		
Environmental Protection	IP54 protection level, anti-salt damage		

Charging System	
Charging Voltage(Vdc)	150~1000(Constant power from 300-1000)
Charging Efficiency	95% (peak)
Connctors	2
Power Distribution	2 connectors intelligent distribution
Charging Power	180kW/240kW
Cable	400A, 5m, CCS
Cooling System	Air-cooling
User Interface	7" LCD high-contrast touchscreen, optional 15.6" or 32" LCD display
User Authentication	RFID, QR code
RFID Reader	ISO/IEC 14443 A Mifare RFID reader
Connectivity	4G/3G/Ethernet (RJ45)
Communication	Proprietary and OCPP 1.6J
Emergency Button	Yes

Meter	
AC Side	AC meter
DC Side	Dual access DC meter

General Parameters	
Ambient Temperature	-25°C ~ 50°C(over 45°C derating)
Humidity	≤95%, No condensation
Storage Conditions	-20°C ~ 30°C, Up to 95% RH, non-condensing, State of Energy (SoE): 50% initial
Altitude	2000m / 6561ft
Noise Level @1m	<80 dB(A)
EMC Emission	Type A
Medium	Non-explosive non-hazardous, non-toxic gases
Interference	Without strong vibration and shock,no strong electromagnetic interference
System IP Rating	IP54

Packaging & Shipping Details

