Product Overview

E-FlowX is an integrated energy storage solution that utilizes LFP batteries as its core energy storage technology. Equipped with a local or remote Energy Management System (EMS), it intelligently optimizes energy supply and demand across the **grid, batteries, photovoltaics, and electric vehicles**. The system excels in delivering high charging power while maintaining low power input, making it particularly suits for **charging stations, logistics centers, bus depots, parking lots, highway service areas, and EV experience centers**. Its modular design ensures high stability, ease of operation, flexible deployment, and provides a unified service experience to meet diverse user needs.

Product Features

All-in-One & Modular Design

Simple installation with plug-and-play capability and a small physical footprint, optimizing space efficiency. Modular O&M improves the system availability.

Easy Expansion

Supports power scalability based on grid interface and photovoltaic installation capacity, while also enabling battery expansion up to 2*180kWh.

Maximizing Returns

The EMS monitors in real-time and executes photovoltaic maximization strategies, optimizing energy usage by charging during off-peak hours and discharging during peak pricing periods, thereby increasing profitability.

Safe and Stable

LFP battery with inter-cluster isolation technology.
Batteries supplied by **Bloomberg Tier 1** manufacturers.
5-layer safety protection system featuring smoke, combustible gas, temperature and exhaust detection, along with Novec1230 gas fire suppression.

E-FlowX

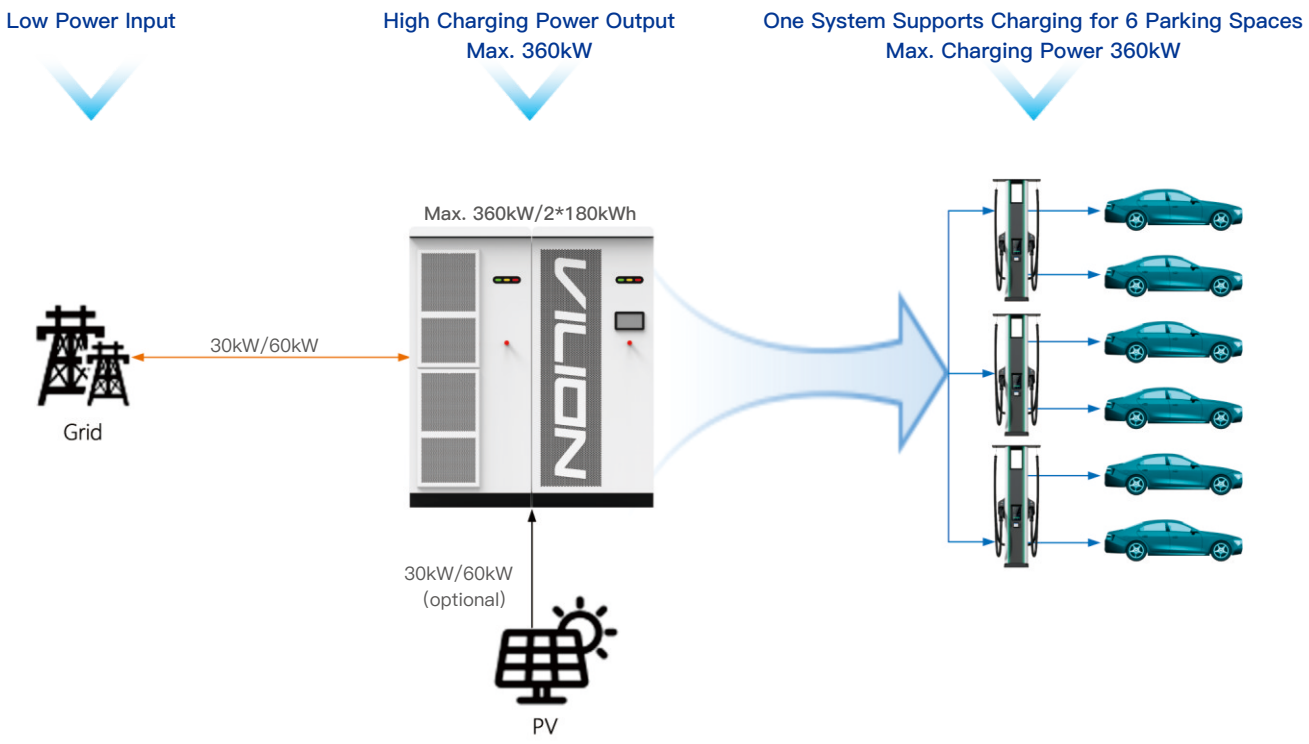
Integrated Outdoor Battery&Charging Cabinet

Charging Modes

Three charging modes are available:

1. 360kW — Exclusive Operating Conditions
2. 240kW, 120kW — First–Come, First–Served
3. 90kW, 90kW, 90kW, 90kW — Average Distributed Power

Application Diagram



E-FlowX

Integrated Outdoor Battery&Charging Cabinet

Items	Parameters
Power Cabinet	
AC Grid Input Voltage	45Hz–55Hz / 3P+N+PE / AC400V
AC Grid Input Power	30kW/60kW
DC Output Power	Max. 360kW
DC Output Voltage Range	150Vdc–1000Vdc
EV Charger Points	3
EV Charger Power	Max. 360kW (Single–pile with dual–connector)
PV Input Channels	1
Max. Power of PV Input	30kW/60kW
Battery Cluster Access	1(Expandable by 1 More Circuit)
Protection Level	IP54
Battery Cabinet	
Cell	LFP
Battery Capacity (BOL)	180kWh
Max C Rate	1C
Fire Fighting System	Fire Alarm & Novec1230
Protection Level	IP55
General parameters	
Cooling Method	HVAC (Battery cabinet) & Forced air cooling (Electrical cabinet)
Anti–corrosion Grade	C3
Operating Temperature*	–30℃~50℃
Relative Humidity	0~95% (no condensation)
Operating Altitude**	<2000m
Noise Emission	≤65dB
Communication Interface	Ethernet, RS485
Protocol	Modbus TCP/IP, Modbus–RTU
EV Charger	
Terminal Type	Single–pile with dual–connector
Charging Power	Max. 360kW per connector
User Inerface	10.1 inches
Communications	ISO15118, CCS2 (OCPP1.6J)
Dimensions(mm)/Weight	Hanging charging station：360 (L) *360 (W) *1600 (H) /110kg Standalone charging station：360 (L) *360 (W) *1950 (H) /140kg

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Items	Parameters
POS Parameters	
Operating System	Prolin
Processor	Cortex A7, 0.5GHz
Memory	128MB Flash+256MB SDRAM
Card Readers	ISO14443, 13.56MHz, Type A/B
SAM	2 SAM
Power Supply	Input: 5V DC
Audio	1×Buzzer
Ports	1×USB Device&RS232 | 1×LAN
Dimensions(mm)	External dimension(L×W×H mm): 82×34×68 Installation dimensions(L×H mm): 72×44
Physical Protection	IP55
Environmental	-30℃~70℃ Operating Temperature -30℃~70℃ Storage Temperature 5%~95% Relative Humidity, Non-condensing
Certifications	PCI PTS 6.x, SRED, UL, CE, RoHS, MasterCard TQM, EMV Contactless L1, Discover D-PAS, Visa payWave, American ExpressPay, MasterCard Contactless
Gunline Parameters	
Rated Operating Current	375A
Operating Voltage	300V~1000V DC
Compressive	3500V
Mechanical Life	>10000 times
Degree of Protection	IP55
Operating Temperature	-30℃~50℃
Cable Outside Diameter	28mm
Thread Length	5m
Certifications	
System: IEC/EN62619 Cell: IEC 62619, UL1973, UL1642, UL9540A Pack: UN38.3 DC Charge Module: EN61851-21-2 class B, UL2022, EN61851-1, EN61851-23	

* The system will be derated when the ambient temperature exceeds 45℃.

** The system will be derated when the altitude exceeds 2000m.

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