E-Flow

Integrated Outdoor Battery&Charging Cabinet

Energy on Demand,
Powering a Bright Future.

All-in-One integrated modular design.
Unbalanced loads operation.
DC coupling with the solar system.

Flexible capacity expansion.
Connecting to AC/DC chargers for EV charging.
Certificates: CE(IEC 61000, IEC62477), IEC62619, UN3480, UN38.3.

4 Layers safety design for the higher reliability

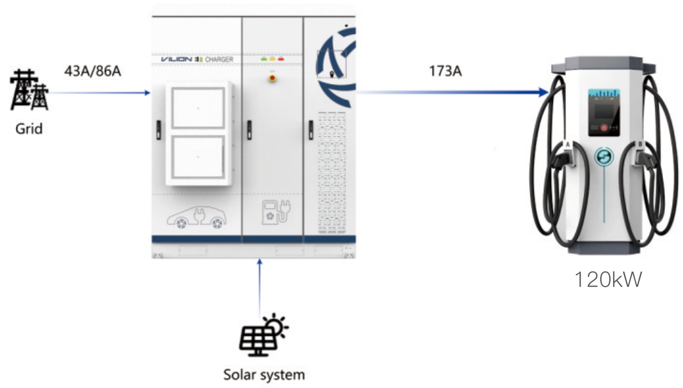
Response <100ms can be applied for grid ancillary service

Directly expand capacity to connect **more chargers**

Modular design and **simple & fast O&M** optimize the system utilization

System Topology Diagram

AC Charging



DC Fast Charging

Peak-load Shifting

Store electricity at low-price periods to use at high-price periods of daytime to benefit from TOU tariff.

Multi-energy Connection

DC access of PV system to store the extra energy for use and optimize the consumption of solar power.

Expand of EV Charging Station

·43A input--86A output
·43A/86A input--173A output

Multiple Application Scenarios

Applicable to factory, office park, hotel, shopping mall, etc.

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Parameters	E-Flow-P60	E-Flow-P120
Battery Side Parameters		
Cell type	LiFePO4 – 280Ah	
Module model	1P20S	
Battery capacity range	107kWh	215kWh
AC Input Parameters		
Grid connection type	3P4W	
Input&output power (grid side)	30kW	30kW/60kW
Rated grid voltage	AC 400V±15%	
Frequency range	45Hz ~ 55Hz	
Input&output current (grid side)	43A	43A/86A
Power factor	0.8（Leading）~ 0.8（Lagging）	
ITHD(Total Harmonic distortion)	≤5%	
AC Output Parameters		
Load type	3P4W	
Rated output power	60kW	120kW
Rated output voltage	AC 400V±1%	
Rated frequency	50Hz	
Rated current	86A	173A
Max. Nos. of output chargers	9*22kW（AC Charger）	15*22kW（AC Charger）；1*120kW（DC Charger）
General Parameters		
Dimension (W*H*D)	1220mm*2093mm*1340mm	1686mm*2093mm*1392mm
Max. weight	1660kg	2500kg
Protection level	IP54	
Cooling method	HVAC (Battery cabinet) & Forced air cooling (Electrical cabinet)	
Fire fighting system	Novec1230 automatic fire extinguishing system	
Anti-corrosion grade	C3	
Relative humidity	0-95%（non-condensing）	
Operating temperature*	-20℃~50℃	
Operating altitude**	＜2000m	
Noise emission	≤75dB (Optional ≤65dB)	
Communication interface	RS485, Ethernet	
Communication protocol	Modbus RTU, Modbus TCP/IP	
Warranty	5 years（can be extended to 10 years）	
PV Side Parameters (Optional)		
Max. PV input power	30kW/60kW	30kW/60kW
PV Input voltage range	≤DC 392V	≤DC 672V
Number of MPPTs	1/1	1/1
Number of PV inputs	1/1	1/1
Max. input current	100A/200A	100A/200A
Certifications	CE(IEC61000, IEC62477), IEC62619, UN3480, UN38.3, MSDS Charge Module: CE Cell: IEC62619, UL1973, UL1642, UL9540A	

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

**The system will be derated when the altitude is between 2000m and 3000m.

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