

Salt spray proof design

Anti-corrosion- fire-proof-
dustproof and shock-proof

Energy storage system series

Low Voltage Distribution -
Areacommercial and
industrial ESS
50kW/100kWh

Product features:

Simple & flexible

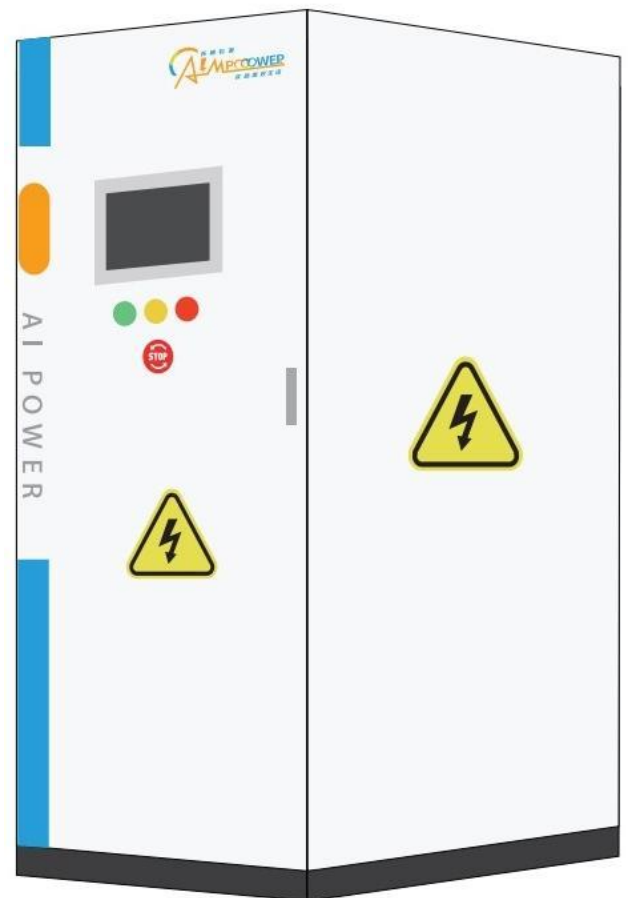
- Standardized design, easy to expand and maintain;
- Independent air duct design, more stable operation;

Safe & reliable

- Support battery management system and comprehensive thermal management;
- Perfect fault hierarchical protection mechanism;

Abundant configuration

- Diversified selection of equipment capacity; Can be integrated with monitoring system;



Technical specifications

AI-ES100	
DC side data	
Battery capacity (kWh)	103.68
Number of battery racks	9
BMS communication interface	CAN /RS485
DC voltage range (V)	650-850
AC side data	
Rated AC power(kW)	50
Max. AC power(kW)	60
Rated AC current(A)	73
Max. AC current(A)	87
DC current component	<0.5%
Off-grid voltage deviation	amplitude $\leq 5\%$, phase $< 3^\circ$
Rated voltage(V)	400
Allowable voltage range(V)	340 ~ 440
Rated grid frequency(Hz)	50/60
Voltage regulation accuracy and voltage ripple	$\leq 2\%$
Power factor	0.9hysteresis ~ 0.9exceed
Isolation method	No isolation
general data	
Class of protection	IP54
Fire extinguishing system	Perfluoro(2-Methy-3-Pentanone)
Running time (full power)	2h
Operating temperature	-20°C ~55°C
Dimension W*D*H (mm)	1200*800*2400
Weight (T)	1.5
BMS communication	RS485,CAN
EMS communication	RS485,TCP/IP
PCS cooling way	Temperature controlled intelligent air cooling
Battery cooling way	Air conditioning refrigeration
Altitude	4500m(>3000mPower reduction)
Relative humidity	0~95%non-condensing