

112KWh Outdoor Cabinet Energy Storage System

HJ-G50-112F 50KW/112KWh



> Product Introduction

The HJ-G50-112F is a highly efficient and integrated outdoor cabinet energy storage system. The system adopts modular air-cooled architecture, with a rated AC output power of 50kW and a total capacity of 112kWh, supporting grid-connected operation. The whole system integrates battery PACK, intelligent BMS management, power conversion (PCS), power distribution and temperature control system, and can be widely used in peak shaving, renewable energy consumption, emergency power backup and other scenarios.

> Product Features

Efficient and stable battery system **PCS** Powerful grid-connected PCS One-piece design

Complete power distribution and auxiliary system

High protection and durability

> Parameter

Model	HJ-G50-112F
Cell Type	LFP 3.2V/314Ah
Energy Rating	112kWh
Combined Configurations	1P112S
Voltage Range	DC 280~408V
Number Of Cycles	>8000@70%EOL,25°C
Depth of Discharge	80% DOD
Communication Interface	RS485,CAN,Ethermet

Grid-connected output parameters

Rated output power	50kW
Rated grid voltage	380/400V AC,3P/N/PE
Rated current	76A
Power factor	0.98
Rated grid Freq.	50/60Hz
Total Harmonic Current Distortion	<3%

Off-grid output parameters

Rated output power	50kW
Rated grid Freq.	50/60Hz
Rated output current	76A
Off-grid switching time	<10ms
Max. Energy Conversion Efficiency	≥89%

System parameter

Dimensions (H * D * W)	600*1000*2000(mm)
Ingress Protection Grade	IP55
Cooling method	Air cooling
Operating humidity range	-30°C~50°C(>45°C derating)
Communication Protocol	RS485/RJ45 (Modbus RTU/TCP)
Fire Fighting Methods	Proactive Early Warning + Aerosol Suppression at Pack Level + Perfluorohexanone at Cabinet Level

> Application Scenarios:

Industrial and commercial parks, photovoltaic storage integration, emergency power backup, microgrid system.