

HV48100



Introduction

HV48100 is a distributed energy storage system with IP20 protection level cabinet, which is integrated with battery Pack, high voltage control box and battery management system. It has the advantages of high performance, scalability and Small Space Consumption. Also, the system has a cycle life of over 6000 times with efficiency of 95%. It can be widely used in charging stations, buildings, factories and other scenarios to realize the functions of peak shaving, emergency power backup, and weak system pv power storage.

Features



High performance battery cell

The HV48100 distributed energy storage system adopts high-performance LFP energy storage battery which is equipped with pytes independent battery management system that can effectively guarantee battery safety, with a cycle life of over 6,000 times and a cycle efficiency of up to 95%.



System Expansion

The HV48100 distributed energy storage system supports to extend the systems to 8 sets in series in maximum, which can meet the demand of 25.6 KWh to 40.96 KWh energy storage configuration and realize the collaborative control of multiple devices through the intelligent control system.



Short charging time

Full charge in 2 hours with 2.56KW per module peak continuous output.

Technical Specifications

HV48100 BMU	
Module Type	LFP
Nominal Voltage	51.2V
Voltage Range	48.8V-56.8V
Max. Continuous Discharging/ Charging Current ^[1]	DC 50A
Depth of Discharge	90%
Cycle Life ^[2]	6000 cycle
Charge Temperature	0~50°C
Discharge Temperature	-10~50°C
Storage Temperature ^[3]	Within 1 month: -20~55°C, 1-3 months: 0~35°C, 3-12 months: 20~25°C
Dimensions (W*D*H)	440*530*140mm
Weight	43.6kg
Protection level	IP20
Communication Port	RS485, CAN
Certification	IEC62619, RoHS, UN38.3
Warranty	5 Years

HV48100 Cabinet	
Battery Type	LFP
Battery System Capacity (kWh)	5.12kWh*n
Battery System Voltage (Vdc)	51.2V*n
Battery System Capacity (AH)	100AH
Battery Modules Qty. (Optional)	5-8
Battery System Charge Voltage-Range (Vdc)	48.8V-56.8V*n
Max. Continuous Discharging/ Charging Current ^[1]	DC 50A
Depth of Discharge	90%
Cycle Life ^[2]	6000 cycle
Charge Temperature	0~50°C
Discharge Temperature	-10~50°C
Storage Temperature ^[3]	Within 1month: -20~55°C, 1-3months: 0~35°C, 3-12months: 20~25°C
Operation Humidity	0~95%, No Condensation
Dimensions (W*D*H)	600*620*1600 mm
Weight	130kg+43.6kg*n
Protection level	IP20
Communication Port	RS485, CAN
Certification	IEC62619, CE, UN38.3
Warranty	5 Years

[1] Test conditions: 0.5C charge/discharge current@90% DOD, 25 C.

[2] The current is affected by temperature and SOC.

[3] Please use 48V DC battery charger to charge battery before selling to customer, If storing the battery more than 6 months