

Battery System

ESS-HB5@A-EU、ESA-CF-A



Overview

The high-voltage battery system includes a battery unit ESS-HB5@A-EU and a HV Control Box ESA-CF-A. It can be used in conjunction with energy storage inverters or photovoltaic energy storage integrated machines for storing and releasing electrical energy.

Features

- Utilizes lithium iron phosphate batteries, providing high safety and long lifespan.
- Equipped with a self-developed battery management system with protective functions like over-discharge, overcharge, overcurrent, and temperature protection.
- Employs high-precision algorithms for SOC (State of Charge) and SOH (State of Health) estimation, ensuring more accurate calculations.
- Modular design, support 2~5 packs up to 25 kWh, control strategy adaptive
- Industrial-level wide-temperature design, suitable for high and low temperature environments.
- Vehicle-level anti-interference design can be applied to stronger and more complex electromagnetic environments.

- Equipped with fuse and aerosol fire extinguisher for double electrical safety protection.
- IP65 protection, suitable for indoor and outdoor use.
- Boasts an ultra-thin design, making it aesthetically pleasing and seamlessly integrated with the wall, thus saving space.
- All in one design, plug and play, easily installation.
- Multiple safety certification: IEC62619, IEC62477, IEC61000, etc.
- Error code indicator, fast and accurate diagnosis.

Specifications

Model	Description
Battery Unit Model	ESS-HB5@A-EU
HV Control Box Model	ESA-CF-A
Electrical	Description
Cell Type	LFP(LiFePO4)
Rated Energy	5.12kWh
Rated Capacity	50Ah
Rated Voltage	102.4V
Voltage Range	89.6-115.2V
Rated Charge Current	25A
Max Charge Current	50A
Rated Discharge Current	25A
Max Discharge Current	50A
Cycle Life	≥6000 (25±2℃, 1C/1C, 80%EOL)
Communication	CAN
Basic parameters	Description
Battery Unit Dimensions	830(W)*200(D)*280(H)mm
Battery Unit Weight	61kg
HV Control Box Dimensions	830(W)*200(D)*260(H)mm
HV Control Box Weight	14.4kg
Cooling	Passive cooling
Certificates	IEC 62619 / IEC 62477-1 / EN 61000-6-1 / EN 61000-6-3 / UN38.3 etc.
Ingress Protection	IP65
Installation Style	Floor
Operating environment	Description
Operating Temperature	Charging: 0~50℃ Discharging: -20~50℃
Storage Temperature	-20~60℃
Operating Humidity	20%~90%, RH (no condensing)

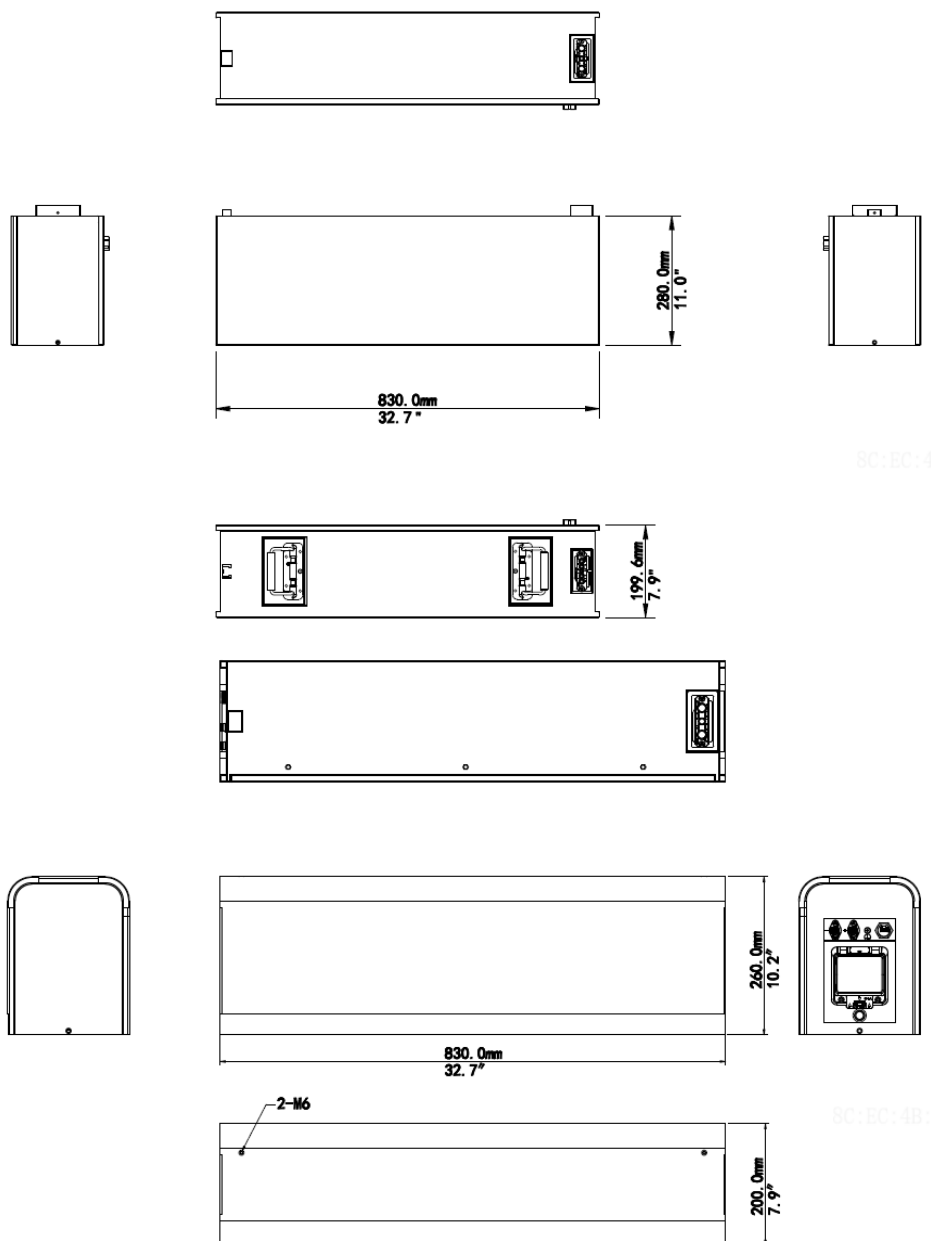
Altitude	≤2000m
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Ordering Information

Model	Qty	Remarks
ESS-HB5@A-EU	1	Battery System (Battery unit, LiFePO4, 5.12kWh, 50Ah, 102.4V, EU)
ESA-CF-A	1	Battery System (HV control box, HV base)

Dimensions

Dimensions: 830(W)*200(D)*280(H)mm



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