

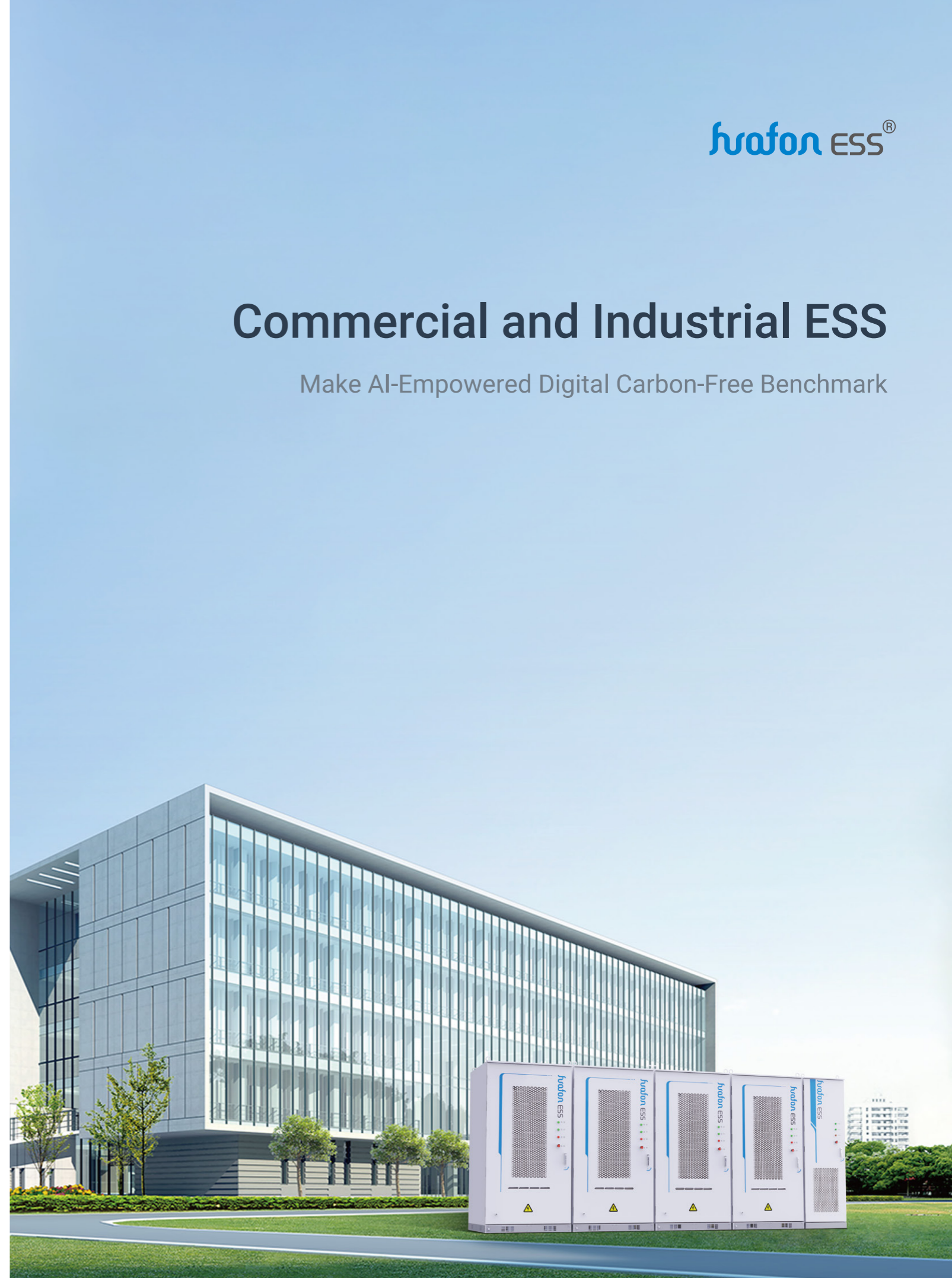


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Commercial and Industrial ESS

Make AI-Empowered Digital Carbon-Free Benchmark



About Us

Zhejiang Huafon ESS Technology Co., Ltd. (hereinafter referred to as "Huafon ESS") is primarily supported by Huafon Group, a notable entity within China's top 500 companies. We operate as an international new energy technology company, focusing on research and development, manufacturing, sales, and service provision across various sectors.

Huafon ESS is guided by a mission to make energy safer, more efficient, and cleaner. We are dedicated to building an integrated-energy intelligent operation service platform. Following a philosophy of "integrated hardware and software," we are deeply committed to innovative energy storage technologies and system solutions. Our product portfolio spans various areas, including commercial and industrial energy storage, residential energy storage, Energy Management System (EMS), and outdoor power solutions. Furthermore, we achieve comprehensive management of new energy's entire lifecycle through our in-house developed intelligent EMS - Moose Platform.

With certifications from multiple countries and regions, including China, the European Union, and Japan, we deliver dependable and secure energy storage system solutions to a wide range of domestic and international projects. Our commitment lies in contributing to a sustainable future through advancements in low-carbon and digital technologies.



Vision

To build an intelligent integrated-energy operation service platform.



Mission

To make energy safer, more efficient, and cleaner.



Value

Passion/Focus/Positivity /Responsibility

Integrating Hardware and Software for a Zero-carbon Future



Save on Electricity Bills

Cut overhead costs with peak-valley price differential.



Stable Power Supply

Provide power compensation for stabilizing power supply and safeguarding equipment.



Perfect Match for PV

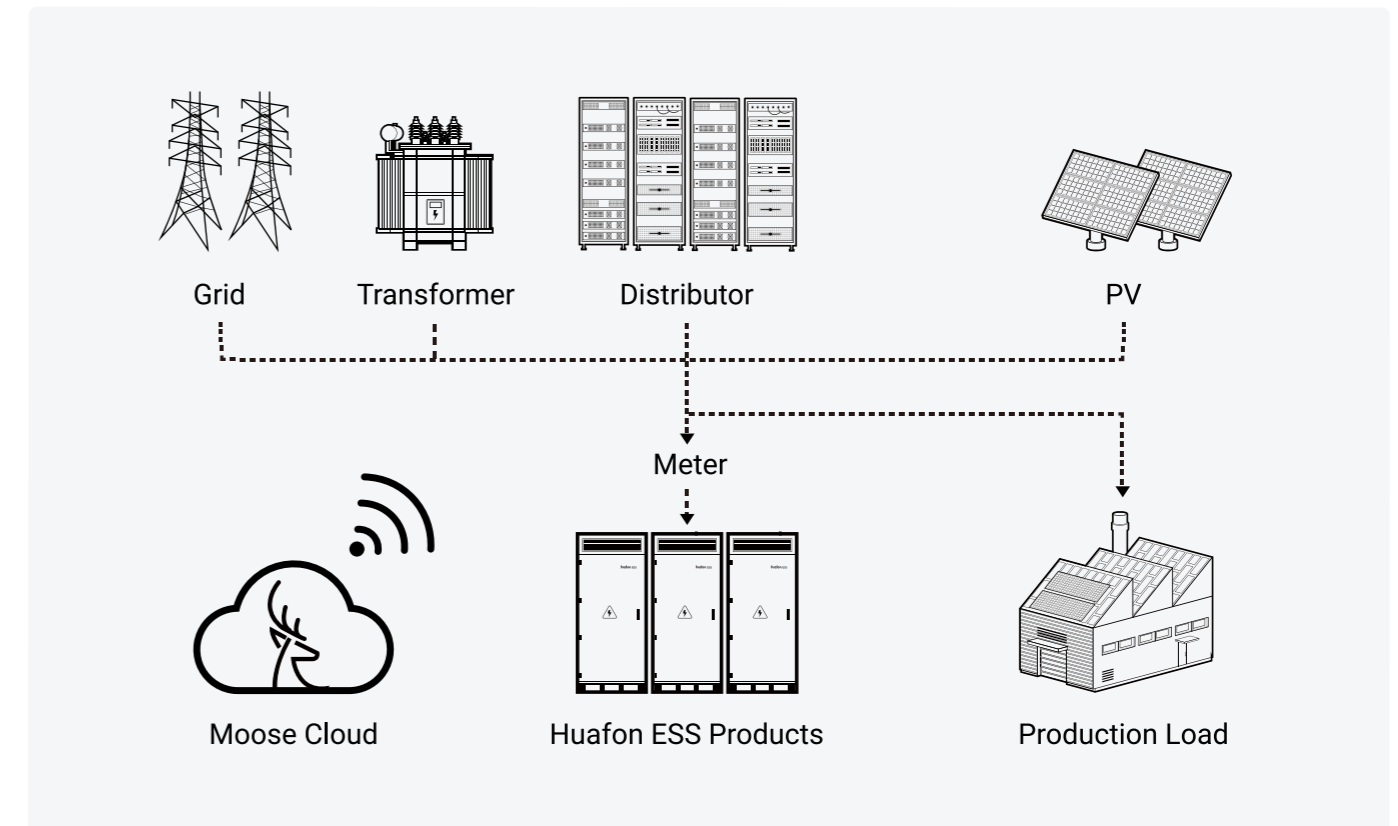
Significantly improve green power utilization by combining PV with ESS.



No Worries about Power Outages

ESS serves as a backup power source, ensuring uninterrupted production for enterprises.

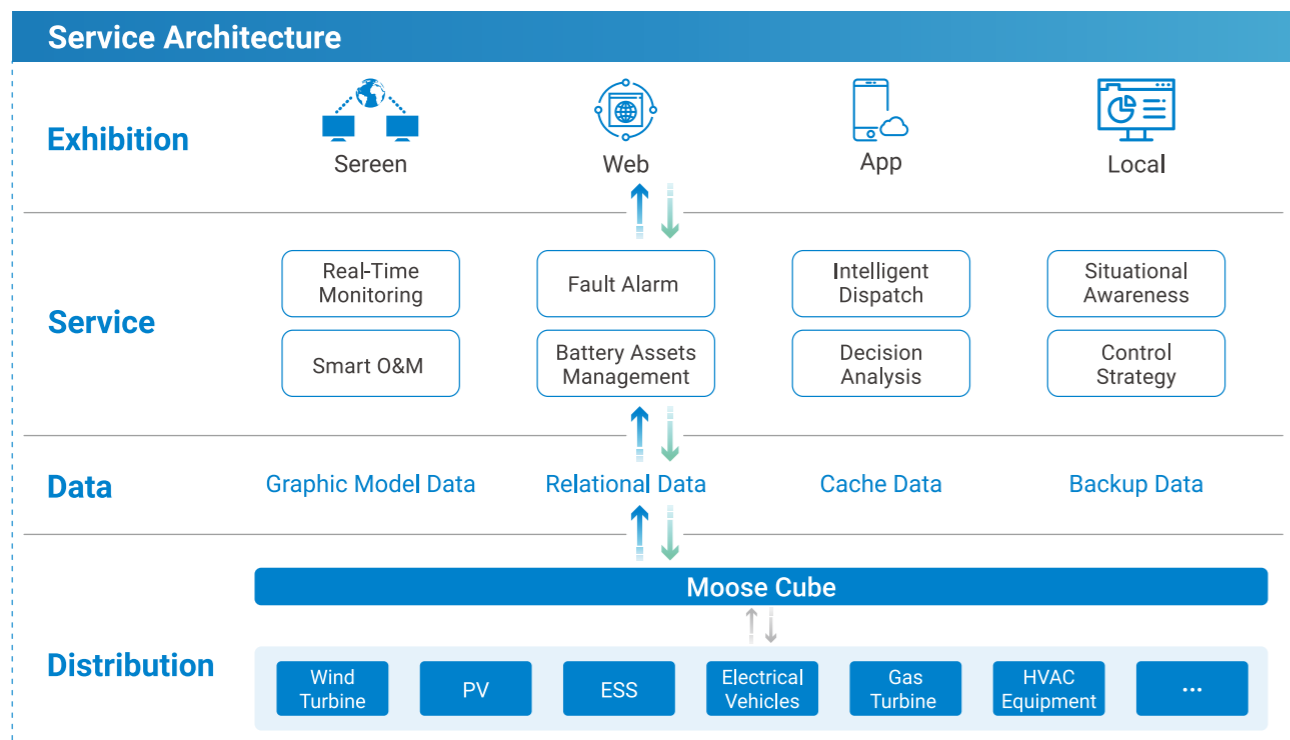
A Quick View of Solution



MOOSE EMS

Moose EMS is an intelligent energy management system independently developed by Huaфон ESS based on the philosophy of "integrated software and hardware." Through the cloud-side synergy of Moose Cloud and Moose Cube, Moose EMS delves into the full life cycle management of ESS. By combining battery health analysis and intelligent prediction, it optimizes control strategies, effectively enhances energy utilization efficiency and economic benefits.

Moose Cloud provides multi-dimensional services, including global display, intelligent topology, comprehensive monitoring, situational awareness, health assessment, energy analysis, and comprehensive diagnosis. It helps users improve power plant production efficiency, reduce energy consumption, and enhance business economic benefits.



Moose Cube is a central controller specifically designed for Distributed Energy Resources (DER) and Microgrid Systems (MGS). It has functions such as controlling and protecting distributed energy resources, monitoring energy quality, and cloud-edge collaboration. The controller is compatible with various types of devices, such as embedded devices, smart electrical and electronic devices, etc.



Low-code simplifies the development process, and reduces maintenance time and cost.

Event-driven reduces communication resource waste, enabling digitization and multi-threaded control.

Complete AOE event-driven control strategy execution framework, adaptable to highly uncertain environments.

One device replaces one set of devices

High Integration / Plug and Play / Light and Flexible / Easy to Maintain



C&I Battery ESS

CA_215



Product Features



Safety Protection

Triple fire protection design: pack+ system+shell insulation layer; Independent control box for relay protection; Temperature monitoring covers each cell; Specialized thermal runaway warning algorithm enhances safety.



Flexible Grouping

CA_215 can be flexibly configured from 200kWh to 1MWh with inverter combiner cabinet, realizing modular expansion of distributed energy storage.



Adaptable Layout

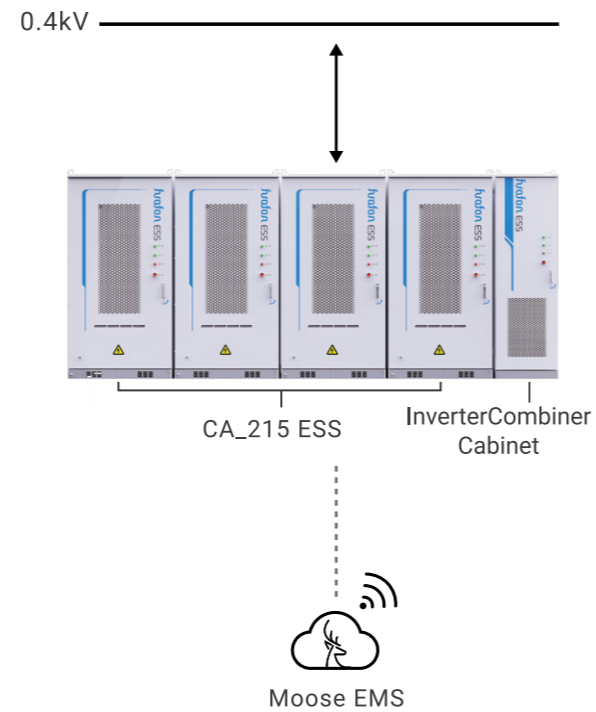
Occupying less than 1.5 m² per cabinet, CA_215 is suitable for factories, parks, commercial buildings and other scenarios.



Intelligent Thermal Management

BMS realizes real-time temperature monitoring of each cell; Quick adjustment of cooling power through thermal simulation models; The internal thermal circulation system adjusts operating power and stabilizes temperatures within 7 °C.

ESS Application Scenarios



Product Configuration

Inverter Combiner Cabinet Model	PowerFlex-300	PowerFlex-300	PowerFlex-300	PowerFlex-500	PowerFlex-500
CA_215 Battery Cabinet Number	1	2	3	4	5
Rated Energy	215kWh	430kWh	645kWh	860kWh	1075kWh
Rated Power	100kW	200kW	300kW	400kW	500kW
System RTE	87%	87%	87%	87%	87%

Model

CA_215

Battery Parameter

System Capacity	215kWh
Cell Capacity	280Ah
Rated Voltage (DC)	768V
Voltage Range (DC)	600V~876V
Max. Continuous Charge/Discharge Ratio	0.5P

System Parameter

Dimension(WxDxH)	1163x1273.5x2273mm
Weight	≥2300kg
Cycle Life	≥6000 Times (95%DoD)
Operation Temperature	-20°C ~ 55°C / -4°F ~ 131°F
Relative Humidity	5% ~ 95%RH, Condensationless
Cooling	Air Conditioner
Fire Extinguishing	Pack Level Fire Protection (Aerosol) + System Level Fire Protection (Perfluorohexanone)
System RTE	≥87%
Max. Operating Altitude	3000m
Service Life	10 Years
Warranty	3 Years
Anti-Corrosion Requirements	C4
IP Protection	IP54
Degree of Dirtiness	Outdoor Class IV
EMS	Huaфон Moose Cloud
Noise Emission	≤75dB
Communication Protocol	CAN, Ethernet, RS-485
Certification	IEC62619, IEC62477, IEC61000, IEC60730, UN38.3, MSDS