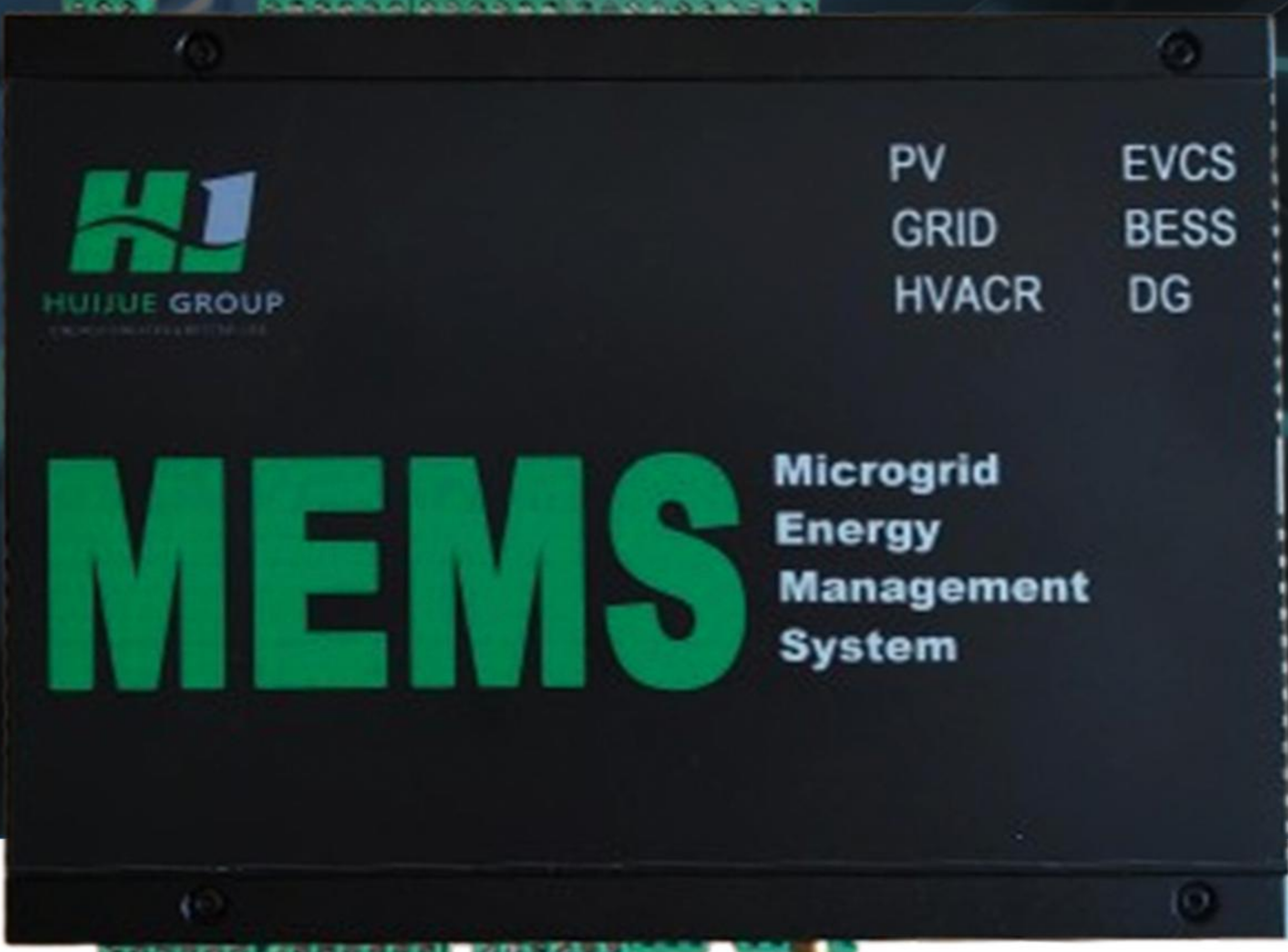


# Station EMS

## HJ-EMS400

### Key Elements

- ✓ Type :EMS Hardware
- ✓ Model :HJ-EMS400
- ✓ The HJ-EMS400 Station-level EMS System is an advanced energy management solution designed for the collaborative management of photovoltaic (PV), energy storage, and charging piles. It aims to optimize energy system performance to enhance renewable energy utilization, reduce energy costs, and achieve more sustainable energy management.



### Multi-Unit Balancing Intelligent Algorithm

Overall energy balance optimization, Cycle balancing , lifespan optimization, and Dynamic power allocation.



### Energy Mutual Support

Precision load control, Energy mutual support, Overall anti-overload/anti-reverse flow, Multi-level collaborative power output.



### Hierarchical Direct-Connect Privatized Service

Direct data transmission reduces latency and enhances real-time performance. Customizable data processing and storage solutions tailored to specific needs. No reliance on third-party service providers minimizes risks and ensures full control over data workflows.



### Zero-Trust Security Operations Upgrade

Rapid connectivity for personnel, devices, and systems. Granular segmentation of users and resources with minimum-privilege point-to-point encrypted connections, enabling flexible and secure transfers of critical data (e.g., scripts, installation packages). Security audit logs to precisely record operational timelines and behaviors for every user and application.



## HJ-EMS400 Technical Specification

### Product Introduction

The HJ-EMS400 Station-level EMS System is an advanced energy management solution designed for the collaborative management of photovoltaic (PV), energy storage, and charging piles. It aims to optimize energy system performance to enhance renewable energy utilization, reduce energy costs, and achieve more sustainable energy management. Key features include intelligent dispatch and optimization, real-time monitoring and response, grid interaction and backup power support, fault prediction, and remote maintenance.

### Parameter

Category	Configuration
Network	RJ45 * 4 (10/100Mbps), 4G module, Wi-Fi
Power Supply	DC12-24V, Power consumption < 5W
Serial Ports	CAN* 3, RS485* 11, USB * 1
DIDO	DI * 8, DO * 6, AI * 2
Environment	Temperature: -40℃ to 75℃, Humidity: 5% to 95%
Display	Optional external 7/10-inch touchscreen
Storage	Built-in 8GB electronic hard drive, External 32GB TF card supported
Dimensions	215W * 140D* 45H

### Basic Functions

Interface with PCS, BMS, environmental sensors, fire protection, high-voltage box, photovoltaic system, intelligent batteries, energy meters, etc.

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