Station EMS

Model: HJ-EMS400 Power:

Summary

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.

Station EMS (HJ-EMS400)

Product Features

Multi-Unit Balancing Intelligent Algorithm

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

MEnergy 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.

Technical Parameters

Product Parameters

Category	Configuration
Network	RJ45 * 4 (10/100Mbps), 4G module, Wi-Fi

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Serial Ports	CAN* 3, RS485* 11, USB * 1
DIDO	DI * 8, DO * 6, AI * 2
Environment	Temperature: -40°C to 75°C, 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.

Application

Photovoltaic-storage coordination, multi-storage centralized control, charging pile capacity expansion, energy balance scheduling, over-demand prevention, reverse flow prevention, and multi-level coordination.

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