

ENERGY MANAGEMENT SYSTEM (EMS)

For C&I ESS And Microgrid



A unified EMS platform optimizing energy assets for efficient operation and cost savings in commercial, industrial, and microgrid applications.



KEY FEATURES



One-Stop Application Shop

Comprehensive solution for local ESS system integration and extensive Microgrid applications, accessible locally and remotely.



OEM Agnostic

Seamless compatibility with third-party ESS, PCS, PV inverters and diesel generators, etc.



Integrated Control And Analytics

Combines real-time asset control with advanced ESS & Microgrid analytics in a single intuitive platform.



Cybersecurity And Compliance

Adheres strictly to cybersecurity standards and data hosting regulatory requirements, developed in Singapore by local Singaporeans.

APPLICATIONS

Renewable Self-Consumption

Optimally manage ESS to maximize renewable energy usage and reduce grid reliance.

Price Arbitrage

Intelligent utilization of time-of-use pricing to optimize financial returns through strategic asset dispatch.

Demand And Capacity Management

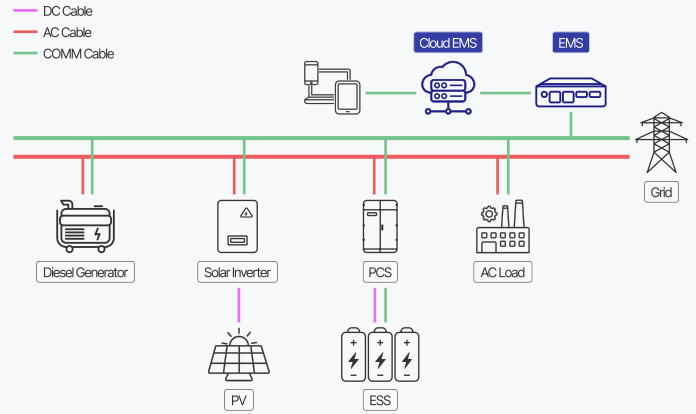
Effectively steer flexible energy resources to reduce peak demand charges and enhance operational efficiency.

On-Off Grid Switching

Automated coordination of ESS and diesel generators during grid disruptions, significantly reducing carbon emissions.

MICROGRID STEERING SOLUTION

The EMS efficiently manages multiple assets, including ESS, PCS, PV systems, and diesel generators, leveraging Modbus and CAN protocols. It executes economic asset dispatch through closed-loop controls at intervals shorter than one second, providing comprehensive oversight across multiple sites via a unified monitoring platform.



Cloud Monitoring

Our cloud-based EMS software offers real-time monitoring and in-depth analytics for ESS, enabling efficient performance tracking and operational oversight. Advanced alarm management with customizable notifications ensures proactive fault detection and enhanced system reliability.

HARDWARE SPECIFICATIONS

Processor	Arm 4x Cortex-A55 1.8GHz
Memory	8GB
Storage	32GB
Networking	1000 Mbps Ethernet port x2
I/O Interface	HDMI2.0 ×1
	USB3.0 ×2
	RS232/RS485 ×2
	RS485 ×4
	Isolated CAN x2 / Non-isolated CAN x1
	Dlx8 / DOx8
Power Supply	9-30 Vdc
Dimension	175.6×108×52.2 mm