Foxtheon®

ENERGYPACK

· BATTERY ENERGY STORAGE SYSTEMS
· HYBRID POWER SYSTEMS
· GREEN ON-SITE ENERGY SOLUTIONS

ENERGYPACK-WHAT IS IT

- An advanced plug-and-play battery storage and distribution system, built for heavy-duty applications.
- An on-site power system with zero noise and zero emissions.
- A perfect load stablizer that effectively downsizes the generator needed.
- The brain of a microgrid that significantly boosts energy efficiency.

Quick Deployment

Modular design with plug-and-play capabilities enables swift setup, ideal for diverse deployment scenarios.

Smart Energy Optimization

The system intelligently manages energy consumption by controlling battery charging/discharging and generator operation based on predetermined schedules, renewable energy availability, and battery capacity, ensuring efficient utilization.

24/7 Unmanned Operation

Integrated remote control and management system enables seamless unmanned operation, reducing maintenance costs and labor requirements.

Seamless Renewable Integration

Easily integrates with solar energy sources, storing surplus renewable energy for use during low production periods, maximizing efficiency.

Flexible Mobility

Engineered for easy transportation and adaptable configuration, catering to dynamic on-site energy requirements.

Cost-Effective Operation

Incorporates high-safety, maintenance-free LiFePO4 batteries, minimizing operational expenses and ensuring a lower total cost of ownership.

ENERGYPACK-
HOW IT WORKS

ISLAND MODE

EnergyPack can operate independently as a standalone power station, making it ideal for noise-sensitive environments such as events, film productions, and night operations. It also effectively addresses low load challenges.

QUIET AND CLEAN

EnergyPack is environmentally friendly during its operation, generating no noise and emitting no pollutants, thereby making a contribution to a safer working environment. They are a superb choice for noise-sensitive application scenarios such as events, film shootings, and construction sites in urban living areas. While complying with all aspects of environmental protection regulations, it remarkably enhances the user experience.

MOBILITY

Events frequently take place at various locations. The EnergyPack is designed to be compact and mobile, enabling easy transportation from one venue to another. This ensures a reliable power supply for diverse event settings.

PLUG-AND-PLAY

The EnergyPack is designed to be simple and easy to use. It is plug-and-play, greatly reducing operational complexity and time costs. It is suitable for most devices and scenarios, whether providing power for events or supporting emergency rescue efforts, and can be quickly put into use.

FAST CHARGING

In island mode, the equipment needs to be on standby to operate with its own stored energy. The fast charging feature of the EnergyPack ensures that the equipment can be fully charged within 2 hours, ready to start the next work cycle at any time.

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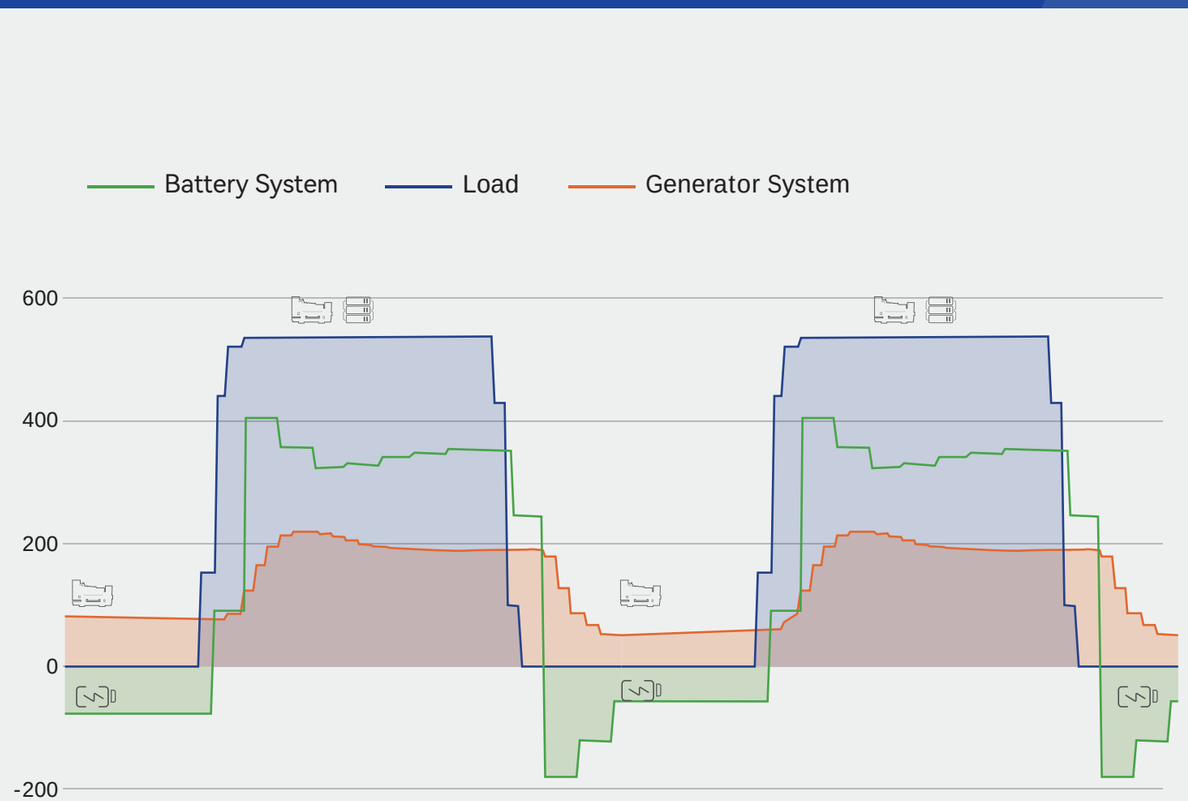
HYBRID MODE

In hybrid mode, EnergyPack synchronizes with traditional diesel generators to stabilize loads, allowing the generator to operate optimally. This enhances fuel efficiency and enables the use of smaller generators.



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1

GENERATOR INTEGRATION

EnergyPack is designed with multiple communication interfaces, making it easy to connect with various types of generators. By integrating diesel, gas, and other generators, it can form a hybrid system that not only increases overall output power but also enhances dynamic and diverse operating strategies.

2

LOAD STABILIZATION

EnergyPack utilizes FoxMind EMS for efficient load distribution management, allowing seamless cooperation between the storage system and generator. During significant load fluctuations, the storage system rapidly adjusts to cover peak and low demands, optimizing the generator's performance. This ensures a stable and reliable power supply, delivering consistent electricity.

3

COST SAVINGS

Intelligent load management and optimized operation reduce equipment wear and maintenance frequency, thereby lowering maintenance costs. Generators operate in an efficient state, significantly reducing fuel consumption and operational costs. Lower fuel consumption not only saves costs but also decreases emissions, meeting environmental standards.

MICROGRID

In Microgrid mode, EnergyPack acts as a central controller, integrating with PV systems, generators, mains, and other clean energy sources. It ensures seamless coordination of energy generation, distribution, and consumption by storing excess energy and providing a reliable, sustainable power supply. As a key component of the microgrid, EnergyPack supports independent power networks using local, distributed energy resources to provide grid backup or off-grid power, meeting local electricity needs.

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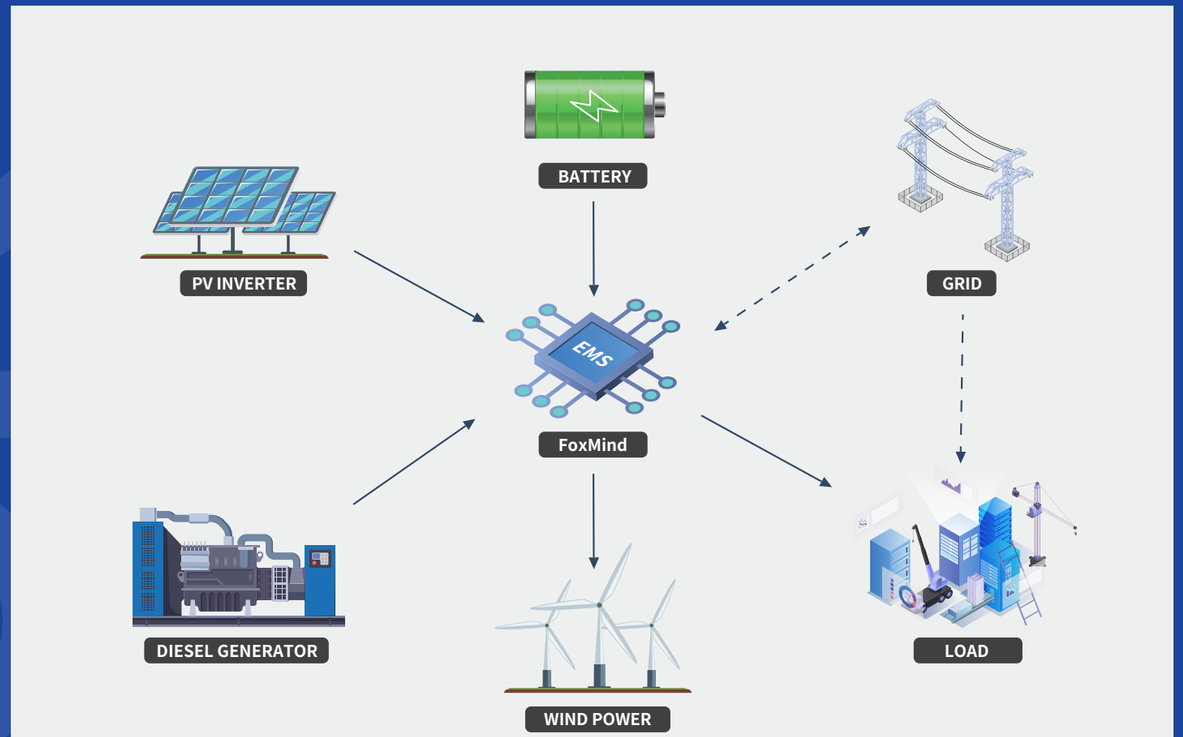
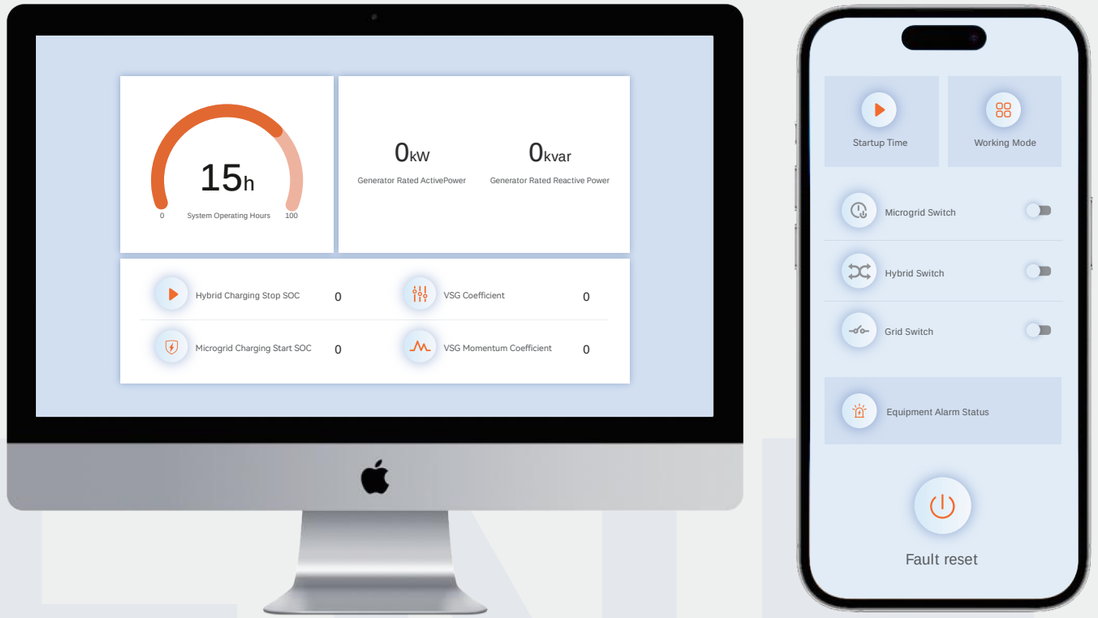


FOXMIND

FoxMind is an intelligent hybrid power management system that autonomously controls power distribution among generators, battery storage, PV, and mains systems, optimizing the most economical power management mix for the entire system. It offers a user-friendly interface for selecting the ideal operational mode in any situation, guaranteeing safe, efficient, and dependable energy supply.



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USER-FRIENDLY INTERFACE

10”HMI with configurable presets, data visualisation and logs. Offers a simple and intuitive interface for easy operation and mode selection.

INTEGRATED CONNECTIVITY

Seamlessly integrates generators, battery storage, photovoltaics (PV), and mains power for holistic energy management, while offering compatibility with third-party monitoring systems.

CONTINUOUS ENHANCEMENT

Our in-house developed software ensures ongoing improvement through regular updates, enhancements, and dedicated customer support. With a lifetime free platform, it delivers lasting value and efficiency gains for our users.

CLOUD-CONNECTED EFFICIENCY

FoxMind seamlessly integrates with cloud technology, enabling remote access for real-time monitoring and energy management from any location. Users can optimize operations effortlessly, whether on-site or remotely, ensuring continuous efficiency and control.

ENERGYPACK-
HOW DOES IT BENEFIT YOU

EnergyPack offers versatile solutions, whether used independently as the main power source in a distributed energy system or integrated with the grid and other energy sources to form a Microgrid, making it suitable for various applications.

TYPICAL APPLICATIONS


Construction Site

Oilfield


Remote Cummunity

Site Office

Event

Mining Site


Telecom

Recharging Point

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FIND THE PERFECT FIT: CHOOSING THE RIGHT PRODUCT FOR EVERY SCENARIO

MODEL	POWER ENERGY	APPLICATION	CONSTRUCTION	MINING	MOTORS CRANES	MANUFAC-TURING	EVENTS	TELECOM	RECHARGING POINT	RENEWABLES
P60	68kVA 68kVh	Noise reduction Low loads Mobile power Hybrid	★	★	★	●	★	●		●
P100 P60 Max	100kVA 102kVh	Peak shaving Low loads Mobile power Hybrid	★	★	★	●	★	●		●
P200	188kVA 188kWh	Peak shaving Energy storage Mobile power Hybrid	★	★	★	●	★			●
P350	350kVA 376kWh	Peak shaving Energy storage Mobile power Hybrid	★	★	★	★	★		●	●
P500	500kVA 564kWh	Peak shaving Energy storage Mobile power Hybrid	★	★	★	★	★		★	★
M30	30kVA 68kWh	Noise reduction Low loads Energy storage Hybrid	★	★			●	★		★
M100	100kVA 188kWh	Noise reduction Low loads Energy storage Hybrid	★	★		●	●	★		★

Mobile Power: Meet the non-stationary power demand
Low loads: Avoid running the diesel generator at low load
Peak shaving: Consume peaks totally or partially to stabilize the load

Energy storage: Store excess generated energy to avoid waste
Noise reduction: Reduce acoustic pollution
Hybrid: Seamless integration with other energy sources

★ BEST CHOICE
● SUITABLE

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EnergyPack Energy Storage System

Rating Book

MODEL		P60	P100	P200	P350	P500	M30	M100
Nominal rated power	kVA	68	100	188	376	500	30	100
Over load power(60s)	kVA	85	125	235	470	625	33	125
Over load power(10s)	kVA	125	250	564	625	625	/	/
Rated voltage	VAC	400						
Output voltage range	VAC	400 (-10%~+15% adjustable)						
Frequency	Hz	50(60)						
Power factor range	/	0 ind. ...1... 0 cap						
Nominal AC current	A	98	144	271	542	721	43	144
Max AC current(10s)	A	180	360	814	902	902	/	/
Max AC current(60s)	A	/	/	/	/	/	48	180
Cell chemistry	/	LiFePO4						
Nominal capacity	kWh	68	102	188	376	564	68	188
Effective capacity	kWh	61.2	91.8	169.2	338.4	507.6	61.2	169
Recharging time	Hours	2h@34kW	2h@51kW	2h@94kW	2h@188kW	2h@282kW	2h@30kW	3h@60kW
Discharging time	Hours	1h@61kW	1h@92kW	1h@169kW	1h@338kW	1h@508kW	1h@30kW	1h@100kW
System round trip efficiency	%	up to 96%			up to 96.6%		up to 94%	up to 96%
Recommended Depth of discharge (DoD%)	%	80						
End of life (EOL)	%	70						
Lifetime (80% DoD, EOL, 25℃)	Cycles	7000						
Battery management system	/	Automotive grade BMS						
Temperature control	/	Liquid cooling / PI heating film						
Protection class	/	IP54						
Corrosion protection	/	C3 (C5M)						
Operating temperature	℃	-20 to +50						
Humidity	/	0-95% （no condensation）						
Maximum operating altitude	m	3000						
Sound power level	dB(A)@1m	<50						
Dimensions	L(mm)	1800	2300	2100	2950	2950	1600	2300
	W(mm)	1000	1150	2300	2300	2300	1100	1150
	H(mm)	1800	2200	2500	2500	2500	1600	2200
Weight	kg	1500	2200	4500	6000	7200	1250	2500

Note: 1) Weights and dimensions are estimates only. Please consult Foxtheon professionals for accurate weights and dimensions for your specific model.
2) Product options are given in brackets. 3) Other voltage levels available upon request.

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INNOVATING FOR A GREENER ONSITE ENERGY

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