

**ELECTRICITY IS THE
START OF YOUR
SIGNAL**

**ARE YOU READY FOR A
BLACKOUT?**

EnerSys[®]

Power/Full Solutions

Powered by

alteryx[®]
Freedom Power

Introducing

EnerSys® *Extended Runtime Solution™*

Powered by **altergy®**
Freedom Power

For Continuous Off-Grid DC Power

One less thing to worry about...because the world doesn't stop when grid power goes out.

Proven Technology

As a leader in stored energy solutions, EnerSys® is at the forefront of delivering innovative solutions to help customers ultimately achieve their business goals. The Extended Runtime Solution™ is one example of how EnerSys is committed to innovative power solutions and optimum performance.

With proven flooded and VRLA batteries, the Extended Runtime Solution incorporates a synergistic blend of materials and design features that provide superior performance and reliability, and satisfy such requirements as long life, design flexibility, high energy density, compact configuration, high cycling, extreme environment and high rate discharge.

When you purchase an EnerSys product, you can be assured of high quality, reliable power backed by over 100 years of experience.

Low Maintenance

"Nearly maintenance-free" is the best way to describe the Extended Runtime Power Solution. The Altergy *Freedom Power*® system requires only a simple filter change after 500 hours of operation, and uses commercial grade hydrogen with an unlimited shelf life. And it offers remote monitoring for maintenance ease and efficiency.

Compare this easy maintenance situation to the routine complex maintenance schedules, trained mechanics and limited fuel life associated with diesel generator sets.



Available Today in High Volumes

Altergy operates the world's first and only automated, high volume fuel cell assembly line in Folsom, California, enabling mass production of Altergy fuel cell products. To see an NBC newscast regarding the Altergy assembly line, go to: www.altergy.com/ and click on News & Announcements.

With large manufacturing plants strategically located throughout Asia, Europe and North and South America, EnerSys is one of the world's largest producers of batteries.

Whether you need reserve power for dozens or hundreds of sites, the Extended Runtime Solution is available to you today.

Clean and Green

Unlike dirty and loud diesel generators, the Extended Runtime Solution emits only water – zero pollutants – making it a clean source of power. It's nearly silent, adding to its neighbor-friendly nature, and responsibly makes use of recycled heat. And when fueled by renewable hydrogen it's as "green" as green can get!



Compact Footprint

Real estate at cell sites is limited and expensive. The Extended Runtime Solution uses far less of this valuable space than a diesel generator, reducing real estate fees.

The Extended Runtime Solution is small and lightweight enough for **rooftop installations**, enabling extended backup power even in tight spots.



Rugged and Reliable

The Altergy *Freedom Power* fuel cell system within the Extended Runtime Solution is a fully integrated, highly efficient system generating high-quality power on-demand at the point of use – where and when you need it most.

The reliable Altergy *Freedom Power* system features a rugged design and durable components able to withstand the challenges of industrial use and outdoor environments and to operate for extended periods of time.

Solution Technology



Fuel Cell System

EnerSys® Extended Runtime Solution™ is equipped with an Alteryg *Freedom Power*® Fuel Cell System. This is a self-contained, highly efficient 5kW engine that generates electrical power at the point of use. Alteryg *Freedom Power* technology combines traditional PEM fuel cells with advanced stainless steel plates featuring proprietary technology, that virtually eliminates the risk of failure. Alteryg *Freedom Power* technology makes the EnerSys Extended Runtime Solution highly reliable and one of your best options for eliminating dependency on fossil fuel generators.

Power Distribution

Extended Runtime Solution is equipped with an Alteryg *Freedom Power* power distribution module via connection to the DC buss.

The module provides the ability to expand from one fuel cell module up to six, enabling your network to start out with a 5kW load and expand to a 30kW load simply by plugging additional fuel cell systems into a common electrical buss.

Premium Pure Lead Batteries

EnerSys Extended Runtime Solution is outfitted with proven premium PowerSafe® SBS EON Technology™ batteries. The PowerSafe SBS battery serves as the cornerstone of the Extended Runtime Solution by supporting the majority of short-term outages.

The PowerSafe SBS approach also reduces float current due to low self discharge, continues to perform in low temperatures and provides extended life in higher temperature environments. In the case of longer outages, the Extended Runtime Solution performs an orderly transfer of power generation from the PowerSafe SBS batteries to the Alteryg *Freedom Power* fuel cell system.

Remote Communications

The Extended Runtime Solution is equipped with an Alteryg *Freedom Power* communication and control function populated with proprietary software.

This vital asset is the control center of the Extended Runtime Solution while also offering customers additional features including remote monitoring, system delay controls and system diagnostics. This control center, through a RS232-Ethernet/IP communication buss, gives network operators peace of mind knowing that if a problem were to occur they would be notified immediately.

Power Conversion

EnerSys Extended Runtime Solution can be equipped with an AC power conversion module containing an AC inverter. This module provides the utility to support AC outlets, AC equipment and/or HVAC needs.



Fuel Solutions

The Extended Runtime Solution offers a fuel cabinet containing lightweight refillable, non-replaceable compressed tanks. These user friendly tanks and fuel cabinet support extended runtime operation and fuel delivery at the point of use.

This approach is an excellent application for **rooftops** where weight and space constraints are an issue.

Service Network

EnerSys Extended Runtime Solution is fully supported by the national EnerSys service team. EnerSys has over 40 service locations, a complete service fleet and is one of the largest reserve power service organizations. The EnerSys service organization is a full power service organization that performs installation, maintenance and service for telecommunications customers throughout the United States.





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