



Power Quality is Our Business



Since its inception in 1987, Energy Control Systems has provided electrical power quality solutions to businesses large and small, domestically and internationally. ECS has earned its honorable reputation through its expertise and commitment to deliver customized, engineered systems, which enable companies and economies to become more profitable. Integrity, exceptional customer service, reliability and Christian principles are at the root of everything we do.

In this technology-driven world, the uninterruptible power system (UPS) is the lifeline of your business. There's a strong probability that, at some point, you have experienced the negative effects of the power environment either from an internal source or due to external contributors, such as the power grid, weather, and natural disasters. The consequences interrupt your ability to conduct business, negatively impact your bottom line and possibly affect your reputation. Can you truly afford to ignore or discount the necessity of a dependable UPS?

Whether you are looking for an uninterruptible power system (UPS) for your newly constructed facility, want to upgrade your current system or simply need a power maintenance program, ECS has every conceivable resource to meet your needs and exceed your expectations. We are dedicated to helping your business thrive.



SURGE PROTECTION



The cost of downtime, depending on the industry, can be upwards of \$100 per second! Every day of delay in implementing the surge suppression solutions from ECS for the protection of electronic infrastructure can be costing you hundreds of thousands of dollars in lost revenue and profits.

The Surge Suppression Incorporated® solution is an engineered solution designed for the ultra-sensitive nature of all variations of microprocessor-based devices.

Our range of panel mounted AC products is from 120VAC to 6900VAC, including many different peak surge current levels.

Combine our nearly 30 years of experience and a customer-centric engineering team with more than 80,000 different devices for surge protection for our telecom, data, and point-of-use products; and there isn't any reason to seek a source for surge protection elsewhere.



Applications:

UPS systems range from small desktop solutions to large 3-phase systems that protect entire facilities. Applications vary greatly, and Energy Control Systems has experience with all the following environments:

- Small Office
- Large Office
- Manufacturing
- IT
- Health Care and Outpatient
- Server Rooms
- Phone Systems
- Offshore
- Oil Drilling
- Government
- 911 Centers
- (Emergency Communications)



Manufacturers:

ECS works with multiple manufacturers to find just the right fit for each customer's needs and application.

A few are listed here:

- Eaton
- Powerware
- Best Power
- APC
- MGE

- Herytage
(Legacy Power Conversion)
- Gamatronic
- XPC (Extreme Power)
- Falcon

Our service personnel and sales staff are extensively trained by these manufacturers to have the knowledge specific to their products.



Solutions:

ECS engineers a solution that suits your budget for an Uninterruptible Power System, ensuring that it is tailored to fit your voltage, run time, communication and other requirements – without unnecessary, costly extras.

Additionally, ECS offers options for your entire site by working with the main UPS manufacturer, as well as third party suppliers, to provide solutions such as:



Because computers and power are the mainstay of our lives, it is impossible to list each and every application where a UPS is necessary.

CONTACT US TODAY TO DISCUSS YOUR OWN, UNIQUE NEEDS. WWW.ECSINTL.COM

UPS Service:

From assistance with your pre-purchase application questions through post-installation operation, Energy Control Systems is at your side. Our quality service continues afterwards, being available to you 24/7 for service calls and maintenance issues.

With more than 100 technicians, having an average of 20 years of direct field experience in factory-trained maintenance, the ECS service team can help you with all your power quality equipment maintenance. Each team member is driven by our commitment to provide exceptional customer service in every interaction every day.

Service options include, but are not limited to:

- UPS Maintenance, preventative or corrective
- Protection Plans, single- or multi-year
- Generator Set Maintenance
- Battery Replacement
- Power Quality Analysis
- Power Quality Equipment Installation

Our services can be tailored to fit your specific circumstances. For example, your UPS Maintenance Plan can range from a simple PM once a year with no comprehensive coverage to multiple visits per year with full coverage and automatic battery replacement. Whatever your needs and budget may be, ECS can create a plan just for you.

And rest assured, every product ECS provides to service your units is tested to perform to industry standards, whether the parts are manufacturer-direct or legacy replacements or refurbished elements.



BATTERIES

Batteries:

The battery in a UPS is considered to be the most common point of failure; yet, it is the easiest element to monitor, maintain and replace. The goal is for your UPS system to handle your loads for a specified period of time after the power goes down. Don't entrust your critical processes to batteries that you cannot depend on.



Manufacturers recommend battery replacement for UPS systems ranging from 3-5 years. However, more critical loads or systems in extreme environments (dirt, temperature or poor power quality) may benefit from more frequent battery change-outs. Even the most expensive battery can be weakened by months of recharging or neglect on a shelf.

ECS provides only fresh batteries, ready to do their jobs. In fact, we have so much confidence in the batteries we provide, we use them in our own contract-covered units.

A good battery does not have to be overpriced. Our battery experts are able to obtain the best pricing for a battery that will perform at the highest level within your budget. Plus, the batteries carry industry standard warranties of one or three years.

When your request for a battery is received, one ECS representative is assigned to handle your account from start to finish. In 3-5 years, your rep will follow up to make sure your battery needs are being addressed.

Our factory-trained technicians are available to install your batteries, no matter how large or small, and then dispose of the old ones per EPA guidelines. Just ask your ECS representative about our service options.



POWER QUALITY

In its broadest sense, power quality is a set of boundaries that allows electrical systems to function in their intended manner without significant loss of performance or life. The term is used to describe electric power that drives an electrical device and the device's ability to function properly with that electric power. Without the proper power, an electrical device may malfunction, fail prematurely or not operate at all. There are many ways in which electric power can be of poor quality and many more causes of such poor quality power.

Each of these power quality problems has a different cause. Some problems are a result of the shared infrastructure. For example, a fault on the network may cause a dip that will affect some customers and the higher the level of the fault, the greater the number affected, or a problem on one customer's site may cause a transient that affects all other customers on the same subsystem. Other problems, such as harmonics, arise within the customer's own installation and may or may not propagate onto the network and so affect other customers. Harmonic problems can be dealt with by a combination of good design practice and well proven reduction equipment.

Energy Control Systems is a full-service power quality consulting firm dedicated to providing clients with a complete analysis of their electrical power systems. We identify system problems, review operational integrity and safety issues, and make recommendations for procedures and equipment designed to correct or avoid future problems.

Our Power Quality professionals and technicians can provide your facilities and systems with a Power Quality site audit to identify the issues that are affecting your bottom line.



**ENERGY CONTROL SYSTEMS
PERSONNEL ARE AVAILABLE
TO RESPOND TO SERVICE-
RELATED CALLS.**

24/7





**GIVE US A CALL
800.383.6956**



surge protection



UPS | Batteries
(uninterruptible power systems)



power quality

**WE DON'T SOLVE PROBLEMS,
WE OFFER AN
ENGINEERED SOLUTION.**

**Power quality is not a single element.
It is a combination of products, services and technologies.**

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