

## Success Story: Ignite Innovations

**Markets Served**  
Data Centers and IT

*A couple of times during thunderstorms and hurricanes, we've lost power and the unit has powered itself down and saved the print job, which is great.*

*Ryan McGann, CEO*

# Ensuring the fine print with Eaton 5PX

#### **Location:**

Stony Brook, N.Y.

#### **Segment:**

Manufacturing

#### **Problem:**

The company needed a robust and highly reliable UPS to back up its expensive 3D printer, an essential piece of equipment necessary for daily operations.

#### **Solution:**

Eaton® 5PX UPS, Intelligent Power® Software

#### **Results:**

The Eaton 5PX provides the protection and extended runtime the company needed to ensure its print jobs are completed, even during an outage.

#### **Background**

Ignite Innovations is a design and development company that absorbed Solar Cool Technologies in 2012. Specializing in the creation of portable power and refrigeration systems that run off of clean and renewable energy — such as solar, wind, wave and hydrogen — the company is constantly modifying and improving its patented technologies.

Recognizing and harnessing the “free” energy, Ignite Innovations promises to provide customers with high quality, reliable and environmentally friendly products that power their everyday needs on the go. Its most recent innovation is the Solar-Cooler, the world’s first portable, solar-assisted refrigeration system.

#### **Challenge**

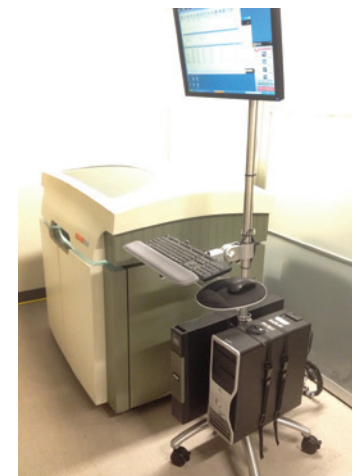
As a design and development firm, Ignite Innovations relies on a variety of sensitive electronic equipment in order to execute critical business tasks on a daily basis. One such device is a \$250,000 3-D printer, which the company uses to create a variety of plastic and rubber components for its consumer products.

“It requires a large power draw,” explains CEO Ryan McGann, noting that the incoming power to the building can be spotty, at best. “Sometimes the power goes out here — and even if it just flickers — if we’re doing a 3-D print job at the time, that could really mess up the model,” he points out.

This is an outcome that McGann, unfortunately, has experienced firsthand. “We had nothing protecting the printer, and the building power flickered a few times and messed up the build,” he recalls.

That’s when the company began to investigate uninterruptible power system (UPS) options. Ignite Innovations sought a model that could offer a high level of reliability, while not occupying a lot of space in its office, as well as the capability to perform an automatic, graceful shutdown in the event of an extended power outage.

“We wanted a battery backup solution that had a good reputation, was available at a reasonable price, and could run for up to 45 minutes and allow for proper shutdown if an outage occurred,” McGann adds.



Powering Business Worldwide

## Solution

Ignite Innovations found everything it needed in the Eaton 5PX UPS. Ever since deploying the 3000 VA unit last year, the company's 3-D printer has been safeguarded against potentially devastating power anomalies.

"I'd heard good things about the Eaton brand, especially how reliable it is," McGann reports.

Indeed, the enterprise-class battery backup solution offers exceptionally high availability. "One of the reasons I like using it is that it supplies a clean power wave to the equipment," he reveals, "so it cleans up any noise that would be in the power line, which in turn helps my equipment run better."

The 5PX also protects more devices with its ability to deliver 28 percent more wattage than traditional UPSs. Furthermore, a real boon for energy-conscious companies like Ignite is the fact that the 5PX boasts an industry-leading efficiency rating of up to 99 percent.

Furthermore, the unit is equipped with Eaton's exclusive ABM® technology, which doubles battery service life using an advanced, three-stage charging technique that closely monitors battery health to provide advanced notification when batteries are close to needing replacement.

McGann also values the 5PX's three-year warranty, which covers both the unit and the batteries — something no other manufacturer in the industry offers. And, to supplement the unit's internal batteries, customers have the option of adding up to four extended battery modules (EBMs) for prolonged runtime.

To facilitate outstanding management and monitoring capabilities, the 5PX is bundled with Eaton's Intelligent Power Software Suite, which combines the most critical applications to ensure system uptime and data integrity. The solution not only offers power monitoring and management, but also graceful shutdown during an extended power outage and extensive notification capabilities. It even works in virtualized environments.

"We definitely like the remote monitoring capability," McGann confirms, "as well as the automated shutdown so the UPS powers off automatically and shuts down the machine."

Ignite Innovations' power protection solution has already been put to the test on more than one occasion.

"A couple of times during thunderstorms and hurricanes, we've lost power and the unit has powered itself down and saved the print job, which is great," McGann enthuses.

## Results

With the Eaton 5PX in place, it's all-systems-go for Ignite Innovations. The company is now able to:

- Ensure the integrity of its 3-D print jobs against a range of incoming power glitches
- Protect the expensive piece of equipment against costly and damaging power anomalies
- Monitor and manage the solution with IPM
- Keep its printer operating for up to 45 minutes after the electricity is cut, then safely power down the device in the event of a prolonged outage, saving all work-in-progress



Eaton 5PX UPS

Learn how the Eaton 5PX can help you at [Eaton.com/5PX](http://Eaton.com/5PX).

**Eaton**  
Electrical Sector  
1000 Eaton Boulevard  
Cleveland, OH 44122 USA  
[Eaton.com](http://Eaton.com)

[Powerquality.eaton.com](http://Powerquality.eaton.com)

© 2014 Eaton  
All Rights Reserved  
Printed in USA  
Publication No. CS153034EN  
March 2014

Eaton, Intelligent Power and ABM are registered trademarks of Eaton.

All other trademarks are property of their respective owners.