



Energy Optimizing Technologies *for*  
Electrical Power Distribution Systems

P O W E R F O R T H E F U T U R E





# Power *for the* future

Powersmiths International Corp. is the leading manufacturer of lean and green electrical power distribution systems.

By generating electrical savings for our customers, Powersmiths makes a positive contribution to the environment and reduces greenhouse gas emissions.

Almost two decades ago, Powersmiths started out with a mission to provide superior power quality. Today, we are leaders in the field of sustainable power distribution products. We are making electrical system run at peak efficiency, driving out waste and building sound environmental practices into our manufacturing processes to set new standards in both energy conservation and high performance electrical systems.

Powersmiths technologies help schools, universities, hospitals, data centers and building owners meet their goals for energy savings and environmental sustainability. There are hidden energy savings in every building. At Powersmiths, we dedicate our days to unlocking those benefits for you.

Our vision is simple - by reducing electricity waste today, we are improving our environment for future generations.

As ultra efficient Powersmiths transformers replace the predominant minimum efficiency industry standard, our power stations work less each year for decades. Imagine the impact; reduced smog, lower greenhouse gas emissions and a cleaner environment.

# Knowledge is Power

## Power for the Future Requires Increased Energy Efficiency

For almost two decades, Powersmiths has focused its research and development efforts toward the achievement of greater efficiency and improved reliability of buildings' electrical systems. These efforts have paid off. Today, Powersmiths provides the most efficient transformers, power quality improvements, and innovative energy monitoring and management systems.

Eliminating electricity waste is one of the most cost effective means of controlling energy costs and reducing environmental impact.

We are committed to helping you to reduce electricity waste while improving power quality and reliability in your building.

## Partnering with you to Achieve High Performance

Powersmiths produces practical and affordable electrical power distribution technologies that:

- Reduce Electricity Waste
- Lower Electrical Costs
- Provide Power Quality and Reliability
- Reduce Environmental Impact

## Lean and Green

A continuous improvement "lean green" strategy guides Powersmiths' product design and manufacturing. Our production teams focus on simplifying processes and reducing cycle times to ensure that customers never pay for needless waste.

Initiatives such as increasing transformer efficiency, our Easy Skid™, the use of biodegradable product packaging and the reduction of harmful volatile organic compounds in production processes, are just a few examples of the extent to which Powersmiths takes its values seriously.

Through these efforts Powersmiths has earned the prestigious ISO 14001 certification for its environmental management system.

By optimizing on lowest life cycle cost, maximizing efficiency and minimizing environmental impacts and packing, Powersmiths' products align with your green purchasing policies.

# Power to Your People

 Powersmiths is your partner in energy management. From training at The Forge™ – our hands-on learning environment, through a custom “Green Start Initiative” pilot program, through to full scale implementation, Powersmiths is committed to ensuring you and your staff understand the benefits and opportunities for saving energy in your building.

## ESP Identifies Your Savings Potential

Powersmiths has designed an Energy Savings and Payback (ESP) Calculator to help you assess the life cycle cost and environmental benefits of implementing Powersmiths transformers compared to standard distribution equipment.

## The Forge™ – Hands on Training

To explain the effect and demonstrate the improved performance of its innovative electrical system technologies, Powersmiths developed The Forge, a hands-on training workshop focused on modern electrical systems, power quality, life cycle costing and energy efficiency. To date more than five thousand professionals have attended The Forge.

## The Green Start Initiative

Powersmiths’ Green Start Initiative provides building owners with consultation and support to develop a pilot program that will identify the savings opportunities in their buildings.

## Financing

Powersmiths understands that you may not have the funds to do your energy upgrade. As an alternative to capital purchasing, Power Technologies Capital, a division of Powersmiths International Corp., offers an attractive equipment leasing program. Offsetting the leasing cost with transformer savings provides a unique way to align monthly expenditures with savings to minimize cash outlay.

## Energy Services Companies

Energy Services Companies (ESCOs) include Powersmiths transformers as a proven Energy Conservation Measure (ECM), as well as metering and Powersmiths WOW as part of their energy management and sustainability initiatives.

## Powersmiths WOW™

WOW is a scalable cloud based platform that provides enterprise level sustainability management applications to help organizations advance their sustainability initiatives. WOW has dynamic outreach and education, easy to use building resource analytics, and comprehensive greenhouse gas (GHG) management tools.

For more information or to schedule a demonstration of the platform visit:  
[www.powersmithswow.com](http://www.powersmithswow.com)



# You Have the Power

 Powersmiths clients are leaders who understand the value of life cycle costing and the importance of sustainability. They are also smart managers who appreciate a good return on their investment.

Both new buildings and building renewal projects offer considerable opportunities to increase energy efficiency, lower operating costs and reduce the adverse environmental impacts associated with electricity generation.



Powersmiths products are installed in innovative K-12 schools, many of the nation's most respected universities and colleges, state-of-the-art medical facilities, mission critical IT environments and in the buildings of the nation's forward thinking commercial and industrial corporations. This means less money spent on energy and more towards achieving the organization's mission.

## High Performance Buildings and Cost Savings

Given the financial and environmental cost of electricity, selecting an electrical distribution system with the lowest life cycle cost makes sense. Whether building to obtain a high performance building certification or simply making a smart choice to optimize electrical efficiency in your building, Powersmiths is the perfect partner for your next energy savings project.

## Our products and Services

To help you identify the Powersmiths products that will meet your energy-saving and environmental goals, we group our products to meet the following needs:

- Increase the efficiency of power distribution in your building (pages 6-7)
- Improve the quality and reliability of your electric power (pages 8-9)
- Monitor, manage and educate your stakeholders on your building's energy use (pages 10-11)
- Combine power quality, reliability and efficiency for mission critical environments (pages 12-13)
- Deploy Powersmiths technologies (page 14)

## More About Powersmiths

The Powersmiths team is dedicated to providing high quality products and responsive customer service. Our corporate headquarters and primary manufacturing facility, located in Brampton, Ontario, is ISO 9001 certified for quality management, has obtained the prestigious ISO 14001 environmental management certification, and has an ISO 17025 certified efficiency test lab.

Powersmiths field representatives span the continent. Each has extensive industry experience and technical expertise and is committed to helping you determine the solution that will optimize the performance of your building's electrical system.

# Efficient Electrical Distribution

*Each year, more than two percent of U.S. electricity production, over 61 billion kilowatt hours, is wasted due to transformer inefficiencies.*

 Powersmiths reduces electricity waste for lower operating costs and a greener environment.



## E-Saver™ Transformer

The E-Saver transformer is the most efficient low voltage distribution transformer on the market today and is manufactured with the lowest environmental impact. The E-Saver is proven to reduce the amount of electricity waste compare to other transformers. Optimized for lowest life cycle cost, each E-Saver delivers thousands of dollars in electrical savings, as well as associated cooling savings, over its life cycle. Transformer models are available that meet DOE CSL-3<sup>1</sup>, NEMA Premium<sup>®</sup>, DOE 2016<sup>2</sup>, and higher efficiencies, and can be configured for either light or heavy loading.



## T1000™ Transformer

The T1000 transformer delivers leading efficiency with power quality correction. This is the transformer selected by those seeking to reduce electricity waste in electrical environments that support moderate to high densities of electronic equipment. The T1000 treats the 3rd, 5th, 7th, 9th and other harmonic currents on a system basis improving voltage quality for increased reliability of electronic equipment. Models are available that meet DOE CSL-3<sup>1</sup>, NEMA Premium<sup>®</sup>, DOE 2016<sup>2</sup>, and higher efficiencies, while maintaining low harmonic distortion levels under nonlinear loads.



## SMART™ Integrated Metering

SMART provides local metering and connectivity between electrical distribution transformers and building management systems. Use it to measure energy use, loading and power quality. SMART also serves as a data acquisition system, providing facilities managers with electrical system data that can be used for commissioning and verification, contributing to high performance building certifications and data support for energy management programs and interactive learning systems. For measurement of transformer losses and efficiency use the Cyberhawk TX model.

<sup>1</sup> U.S. Department of Energy Candidate Standard Level - 3

<sup>2</sup> U.S. Department of Energy, 10 CFR Part 431, "Energy Conservation Program: Energy Conservation Standards for Distribution Transformers; Final Rule", Federal Register April 18, 2013, p23339 Table I.6

 As the backbone of your power distribution system, Powersmiths transformers have been measured to deliver over 75% savings compared to off-the-shelf transformers. Over their installed life (typically 32 years life expectancy according to the DOE<sup>1</sup>), Powersmiths transformers will accumulate savings to many organizations of hundreds of thousands of dollars and hundreds of tons of CO<sub>2</sub> emissions.

## EVALUATE YOUR SAVINGS POTENTIAL

### Energy Savings and Payback (ESP) Calculator

Powersmiths has developed software that allows you to evaluate the savings potential of installing super-efficient electrical transformers. Our ESP software makes it easy.

An easy to use template enables you to model your electrical distribution components, electricity rates and usage parameters, and immediately calculate the life cycle return on investment of installing Powersmiths transformers.

Using the ESP Calculator you will see how using first cost as your sole buying criteria is not a rational choice. The three to four decade life cycle of your electrical system means that first cost is only a small fraction of the full life cycle cost. For a typical building, purchasing based on lowest life cycle cost results in hundreds of thousands of dollars of savings and avoids the significant adverse environmental impacts associated with selecting the lowest first cost product.

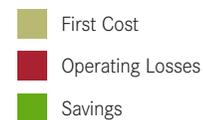
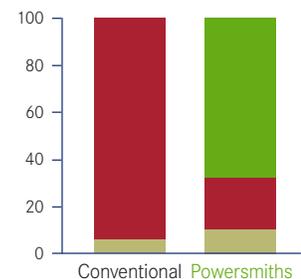
Energy Savings and Payback Calculator for Typical Office Building (13 floors, 360,000 sq. ft.)	Annual Operating Cost	Life Cycle Operating Cost	
		25 years	40 years
SCENARIO:			
Status Quo Transformers	\$19,013	\$995,242	\$2,480,887
Powersmiths Transformers	\$8,668	\$453,697	\$1,130,951
<b>Savings with Powersmiths</b>	<b>\$10,346</b>	<b>\$541,545</b>	<b>\$1,349,936</b>
Annual CO <sub>2</sub> Reduction: 69 tons Equivalence in trees planted: 13 acres of trees			

Based on \$0.10/kWh and E-Saver-C3 model. Assumes a 3% energy rate increase above inflation.

Energy Savings and Payback Calculator for Typical Middle School	Annual Operating Cost	Life Cycle Operating Cost	
		25 years	40 years
SCENARIO:			
Status Quo Transformers	\$7,945	\$289,664	\$599,052
Powersmiths Transformers	\$1,521	\$55,454	\$114,684
<b>Savings with Powersmiths</b>	<b>\$6,424</b>	<b>\$234,210</b>	<b>\$484,368</b>
Annual CO <sub>2</sub> Reduction: 42 tons Equivalence in trees planted: 8 acres of trees			

Based on \$0.08/kWh and E-Saver-C3 model. Assumes a 3% energy rate increase above inflation.

### LIFE CYCLE COST COMPARISON EXAMPLE



	Conventional	Powersmiths
First Cost	4%	6%
Operating Losses	96%	25%
Savings	0%	69%

Based on E-Saver-C3 model.

We invite you to see for yourself; **Powersmiths ESP Calculator** is available to you at no charge at [www.powersmiths.com](http://www.powersmiths.com)

<sup>1</sup> U.S. Department of Energy

# Power Quality Correcting Products

*Transformers built to serve the smooth sinewave loads of the past do not perform well under today's loads. Computers and other electronic devices draw electricity in pulses (nonlinear). These types of loads result in higher electrical system losses, generate extra heat and can distort system voltage, reducing reliability.*

 Powersmiths harmonic mitigating transformers improve system power quality by reducing harmonic distortion, reducing harmonic related losses, and improving system efficiency, performance and reliability.



## **T1000™ Transformer**

The T1000 transformer delivers leading efficiency and power quality improvement. This is the transformer selected by those seeking to reduce electricity waste in electrical environments that support moderate to high densities of electronic equipment. The T1000 treats the 3rd, 5th, 7th, 9th and other harmonic currents on a system basis improving voltage quality for increased reliability of electronic equipment. Models are available that meet DOE CSL-3<sup>1</sup>, NEMA Premium<sup>®</sup>, DOE 2016<sup>2</sup>, and higher efficiencies, while maintaining low harmonic distortion levels under nonlinear loads.



## **K-Star-D™ Transformer**

K-Star-D is an advanced dual output harmonic cancellation transformer. It treats the 3rd, 5th, 7th and 9th harmonics in the secondary windings, thereby replacing the need for two transformers where two electrical panels or two connected loads are available. The result is increased efficiency and even better harmonic treatment.



## **N1000™ Neutral Current Filter**

The N1000 is designed to treat neutral current, neutral to ground voltage and 3rd harmonic current. It is connected in parallel to the electrical system. This is an ideal retrofit product for electrical systems with these issues.



## **Harmonic Conditioners (HCs)**

Powersmiths offers a comprehensive line of Harmonic Conditioners to treat 5th, 7th, 11th and 13th harmonics in 3-phase systems and in single phase line to line connections. Powersmiths' HCs treat harmonic currents created by the 3-phase nonlinear loads of rectifiers and variable frequency drives. HC's are available in a wide variety of configurations to match virtually all applications.

<sup>1</sup> U.S. Department of Energy Candidate Standard Level - 3

<sup>2</sup> U.S. Department of Energy, 10 CFR Part 431, "Energy Conservation Program: Energy Conservation Standards for Distribution Transformers; Final Rule", Federal Register April 18, 2013, p23339 Table 1.6

# Preventative Maintenance Options

*Effective preventative maintenance programs help identify problems before they lead to power and/or equipment failures.*

 Powersmiths offers innovative solutions to lower the cost and enhance the effectiveness of preventative maintenance programs.



## Rotatable IR Port™

Thermographic inspections must be conducted on live operating equipment. This can expose inspectors to dangerous Arc Flash. Powersmiths patented Rotatable IR Port facilitates safer, non-invasive scanning by providing inspectors with a 360° view of compartment interiors without the need to open equipment enclosures. This reduces the cost and risk of thermographic preventative maintenance programs. The Rotatable IR Port is suitable for factory or in-field installation on transformers, switchgear, motors, drives and power distribution units.



## Hinged Doors

Standard transformer housings are secured with a number of bolts that must be removed to get at the interior of the equipment. To lower the cost and increase the safety of maintenance, Powersmiths provides a convenient hinged door option on all transformers. This enables faster and easier access to the interior compartment of Powersmiths transformers.

# Value Added Options

*Cookie cutter solutions don't always satisfy your power transformation requirements.*

 Powersmiths offers a number of optional features to meet your specific needs, including:

**Seismic Bracing** - preapproved by OSHPD for the highest acceleration

**Integrated Primary and Secondary Breakers** - to save space and reduce installation costs

**Custom Designs** - to meet existing footprint and wiring configurations

**Outdoor Cases** - N3R and pad-mount

**Integrated SMART™ Meter** - see page 6

**Integrated SPD (TVSS)** - for in-building protection against transients and electrical noise

**Custom Color Cases**

# Energy Monitoring and Management

*Managing energy consumption and energy costs are high priority for all organizations. But you can't manage what you can't measure.*

 Powersmiths' Cyberhawk™ product family helps you:

- Manage and control resource use
- Identify opportunities to reduce cost
- Evaluate power quality
- Monitor efficiency programs
- Provide data for commissioning and validation
- Drive interactive learning systems



## Cyberhawk 200M

The Cyberhawk 200M is a revenue grade certified (ANSI C12.20 Class 0.5 or Class or 0.2) Multiple Meter Unit (MMU). These meters monitor energy, power and power quality, include digital inputs to count pulses from external water, gas and other meters, have user configurable alarms, and are networkable. Configurations integrating up to six meters in one enclosure are available.



## Cyberhawk 300

The Cyberhawk 300 is an advanced power meter that provides an extensive array of power and power quality measurements for informed energy and power management decisions. Cyberhawk 300 comes with up to three 3-phase connections for the simultaneous measurement of independent points in a system and is ideal for monitoring energy consumption, tracking power quality, and acquiring data for verification and commissioning. Like the rest of our Cyberhawk meter family, data from the Cyberhawk 300 can be viewed over the network in real time or trended over time, and can be ported to Powersmiths WOW sustainability management platform.



## Cyberhawk Express

The Cyberhawk Express is a revenue accurate electric meter with many value-added features. Through its digital and analog inputs, it integrates electrical with non-electrical meter data, such as water, gas, temperature, steam and more. The Express cost-effectively can extract specific loads from a mixed panel for easy and meaningful monitoring, and with errorless aggregation of multiple circuits within a single meter, the Cyberhawk Express eliminates the cost for additional meters. The Express model presents many additional features essential for data collection, including long-term data logging, trending, user-settable alarms, USB access, and direct or local networking.

# Sustainability Management

*Lack of knowledge, lack of co-ordination, lack of data and conflicting messaging surrounding an organization's goals tend to slow progress towards environmentally sustainable practices.*

 Powersmiths WOW™ is a cloud based platform that provides enterprise level sustainability management applications to help organization's advance their sustainability initiatives.

## Powersmiths WOW™

WOW acquires resource consumption and production data from your building's metered systems, network accessible databases and user inputs and presents this data through applications that support resource management, performance validation, carbon footprint reporting, and outreach and education.

WOW is offered on a SaaS (Software as a Service) basis providing immediate data accessibility and a communication channel for promoting benefits, goals and achievements of initiatives.

## Support for On-Going Accountability of Building Systems

Facility managers and sustainability officers can use WOW's data analytics applications to make sense of the ever increasing amount of data coming from their building systems. Easily monitor and compare resource use patterns, targets, historical performance and benchmarks, to facilitate early corrective action when issues arise and showcase real results of sustainability initiatives.

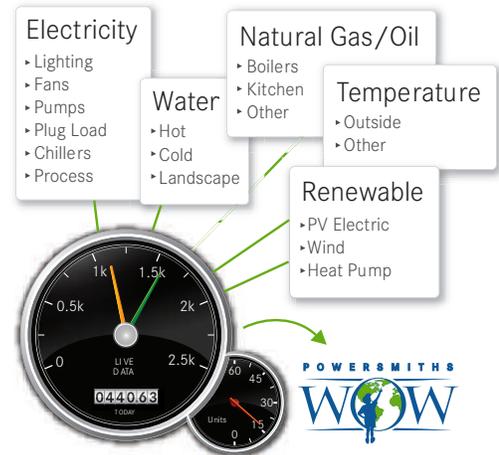
## Greenhouse Gas Management

WOW's GHG Management application leverages real-time and historical data, and automates many aspects of GHG reporting. Because it is part of the WOW platform, GHG Management provides anytime, anywhere access to views of carbon emissions, enabling organizations to engage stakeholder participation in carbon footprint and energy use reduction projects.

## Foster a Conservation Culture with WOW

Building occupants can play a significant role in ensuring that your building continues to meet resource use objectives. WOW's public outreach and education applications provide a framework to showcase and explain the environmental features of your building, inform building occupants of sustainability goals and progress, and show actual resource use and savings.

Viewed on the WOW Kiosk or on the Web, WOW helps build support for sustainability.



Monitor resource use and validate building system and sustainability initiative performance



Calculate carbon inventory and monitor GHG emissions real-time

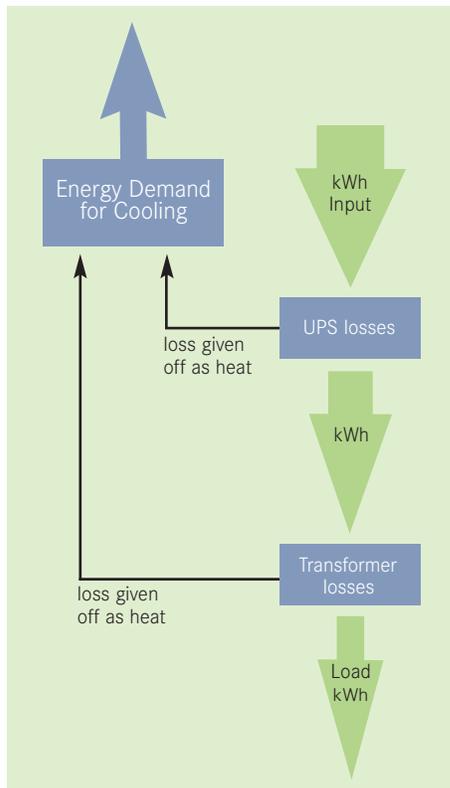


Provide dynamic and interactive outreach and education

# Energy Efficiency and Reliability in Data Centers

In 2005, U.S. data centers used about 45 billion kWh—roughly 1.2% of all U.S. energy consumption (U.S. DOE<sup>1</sup>). With exceptionally high power consumption there exists considerable potential for waste. By the same token, enhancing efficiencies can yield significant environmental benefits and financial savings.

 Data Centers can be green. Powersmiths can help.



In mission critical environments all energy lost by inefficient transformers must be delivered by UPS's that also incur losses. All system losses are generated as heat that must be cooled. By reducing transformer losses, you gain direct electricity savings and indirect reduced cooling costs.

In mission critical environments a 2.5% increase in transformer efficiency can yield a greater than two and a half fold reduction in electricity waste on a system wide basis. This is because in data centers the UPS compounds transformer losses and all losses take the form of heat. The greater the losses, the greater the need for cooling.

Powersmiths' Energy Station™ PDU and its ultra-efficient transformer eliminates significant direct electrical losses and associated cooling burden, and increases available UPS output. In data centers, this can amount to millions of dollars over the life cycle.

## Energy Savings and Payback (ESP) Calculator

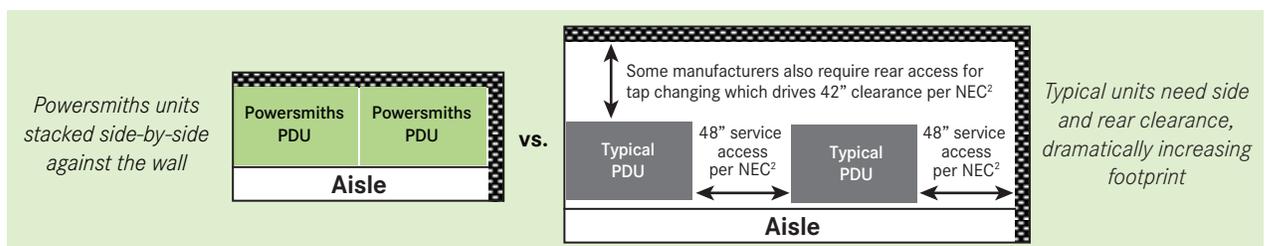
Input the specifications or your electricity distribution components, your usage parameters and electricity rate; the ESP calculator will then calculate the return on your investment and the environmental benefits of installing Powersmiths transformers. The ESP Calculator is available to you at no charge at: [www.powersmiths.com](http://www.powersmiths.com)

Energy Savings and Payback Calculator for Typical Data Center	Annual Operating Cost	Life Cycle Operating Cost	
SCENARIO:		25 years	40 years
Status Quo Transformers	\$348,122	\$8,703,048	\$13,924,877
Powersmiths Transformers	\$139,601	\$3,490,014	\$5,584,022
<b>Savings with Powersmiths</b>	<b>\$207,521</b>	<b>\$5,213,034</b>	<b>\$8,340,855</b>
Annual CO <sub>2</sub> Reduction: 1539 tons Equivalence in trees planted: 287 acres of trees			

Based on \$0.10/kWh and E-Saver-C3 model. Assumes a 3% energy rate increase above inflation.

## Highest Power Density

Escalating demands on data room computing capacity means floor space is at a premium. Gain revenue generating floor space with the Energy Station's compact modular design. In addition to its market leading efficiency, the Energy Station boasts the smallest footprint with its true front-only access requirement and greatest configurability.



<sup>1</sup> U.S. Department of Energy  
<sup>2</sup> National Electric Code®



### Energy Station™ (PDU)

The Energy Station integrates a Powersmiths high-efficiency transformer, main breaker, electrical distribution panels and Cyberhawk™ power management meter into the highest density power distribution unit available. The Energy Station's modular design and true front-only access requirement allow the highly customizable unit to be configured to meet unique floor layouts and power distribution needs. A 39" depth front and rear access unit is also available. This space-saving unit incorporates front and rear panel boards and is suitable for mid-aisle placement. Customers requiring the delivery of multiple voltages can order individual Energy Stations configured to simultaneously deliver up to three system voltages in any percentage combination of 480/277V, 415/240V and 208/120V power.

Powersmiths' patented Rotatable IR Port™ (page 9) comes integrated into the unit to provide safe and effective thermal scans, supporting preventative maintenance programs.



### Compact Energy Station™

With multiple distribution panels, up to a 50 kVA transformer built in, and a 24 by 24 inch footprint, the Compact Energy Station minimizes space requirements. Critical loads with dual input capabilities are easily supplied by the Compact Energy Station.

Available with a Powersmiths Cyberhawk™ power management meter as an option, the Compact Energy Station provides quality, ease of use and rugged design at a competitive price. Unit is also available without the transformer as a Remote Load Center™.



### E-Saver™ & T1000™ Transformers

Powersmiths transformers are the most efficient low voltage distribution transformers on the market today, are manufactured with the lowest environmental impact, and provide the lowest life cycle cost. In addition to the greatly reduced operating losses compared to standard transformers, Powersmiths transformers release less heat, which has a compounding effect on the rest of the data center's systems. The E-Saver and T1000 transformer families are K rated and the T1000 treats the 3rd, 5th, 7th, 9th and other harmonic currents on a system basis. This improves voltage quality for increased reliability of electronic equipment. Models are available that meet DOE CSL-3<sup>1</sup>, NEMA Premium<sup>®</sup>, DOE 2016<sup>2</sup>, and higher efficiencies, while maintaining low harmonic distortion levels under nonlinear loads.

<sup>1</sup> U.S. Department of Energy Candidate Standard Level - 3

<sup>2</sup> U.S. Department of Energy, 10 CFR Part 431, "Energy Conservation Program: Energy Conservation Standards for Distribution Transformers; Final Rule", Federal Register April 18, 2013, p23339 Table I.6



# Deploy Powersmiths Technologies

## Optimizing Performance to Suit Your Building

To ensure that your building's power infrastructure matches your building's load profile, Powersmiths' recommendations are based on actual loading. For new building projects, Powersmiths draws on its extensive database of real world applications to formulate recommendations that will mirror your load demands. For building renewal projects, we undertake comprehensive field studies and base our recommendations on measured load profiles. In this way, you are assured of achieving maximal efficiency and best possible return on your investment.

## Manufacturing

Our commitment to quality, sustainability and customer service governs manufacturing at Powersmiths and is embedded in our certifications to ISO 14001 for environmental management, ISO 9001 for quality management and ISO 17025 for our efficiency test lab. In addition to extensive on-going testing and quality control procedures, our "lean" manufacturing ethos requires that we be rigorous in our efforts to remove non value-added activities allowing us to produce the highest quality, lowest life cycle cost electrical distribution products available.

## Shipping

Powersmiths products are shipped on our innovative Easy Skid™. Easy Skid facilitates safe and easier handling through the shipping process from transportation to final placement for installation. In addition to using 70% less wood than traditional packaging, Powersmiths uses FSC® certified wood and an organic bio-degradable shrink wrap.

## Commissioning and Validation

Powersmiths' Cyberhawk™ and SMART™ power management products provide the information you need for user friendly, on-going commissioning and validation of building systems. Powersmiths representatives are available to conduct on-site commissioning and validation studies.



## Reducing Life Cycle Cost and Improving the Environment

Every day millions of kilowatt hours of electricity are wasted. Inefficient power distribution and poor quality power in buildings can lead to costly down-time, higher operational costs, increased maintenance and avoidable environmental degradation.

When you select Powersmiths to fulfill your power distribution needs, you demonstrate that you value lower life cycle cost over lowest first cost and that you are committed to reducing electricity waste. In doing so, you play a role in lowering CO<sub>2</sub> emissions and building a more sustainable future.

Powersmiths has a network of highly qualified electrical distribution specialists who are eager to assist you to implement efficient *Power for the Future™*. To learn more about your savings potential contact Powersmiths at 1-800-747-9627 or [info@powersmiths.com](mailto:info@powersmiths.com).



**Powersmiths clients are leaders in their respective fields. Among our clients we include:**

### Higher Education

Case Western Reserve University  
Delmar College  
Denver University  
Henderson University  
Duke University  
Laney College  
Maryland Tech  
McMaster University  
Memorial University of Newfoundland  
North Dakota State University  
Northwestern University  
Pace University  
Sonoma University  
South Texas Law College  
Texas A & M  
University of Calgary  
University of California  
University of Massachusetts  
University of Michigan  
University of Texas  
University of the South  
University of South Carolina  
University of Toronto

### K - 12

A.F. Haynes Center, NY  
A.R. MacNeill Secondary School, BC  
Absegami High School, NJ  
Cambridge Elementary, TX  
Chandler High School, AZ  
Hernwood Elementary, MD  
Holy Heart High School, NL  
Hope High School, AR  
Horace Mann Middle School, TX  
Mendham High School, NJ  
Neshaminy School District, PA  
New Plum Point School, NF  
Newfoundland School for the Deaf, NL  
Newton South High School, MA  
Poudre School District, CO  
Princeton City Schools, OH  
Providence Schools, RI  
Reagan Elementary School, IN  
Red Maple Elementary School, CA  
Twenhofel Middle School, KY  
West Junior High School, TN  
Yuma High School, AZ

### Medical

Apotex  
Applied Health  
Array Biopharma  
Baptist Medical Centre  
B.C. Cancer Research Centre  
Cameron Memorial Hospital  
Florida Hospital  
Foothills Hospital  
Holy Spirit Hospital  
Kaiser Permanente  
Lafayette Hospital  
McMaster Health Center  
Medtronic  
M.D. Anderson Cancer Center  
Novex Pharma  
Physiome Sciences  
Riderwood Extended Care  
Texas Children's Hospital  
United Health Care  
U.S. Cardio Centre  
Valley Baptist Medical Centre  
Wilkes-Barre Hospital

### Broadcasting and Entertainment

Rogers Communications  
Williams Communications  
Walt Disney  
Bell ExpressVu  
CBC Television  
Charlestown Casino  
City TV  
CNN  
TIVO  
Texas Casino  
Wynn Las Vegas

### Communications

AOL  
AT&T  
Bell South  
Fox Communications  
Lifetime TV  
Los Angeles Times  
Washington Post

### Mission Critical IT

360 Networks  
Adobe Systems  
Bank of Montreal  
Cisco Systems  
Citicorp Credit  
Convergys  
Discover Card  
EDS  
Hewlett Packard  
Lucent Technologies  
SWIFT  
Toronto Stock Exchange

### Government

Arlington Courthouse  
Department of General Services  
NASA  
Revenue Canada  
US Bureau of National Affairs  
US Department of State

### Commercial

3M  
Air Canada  
Allied Signal  
American Funds  
Boeing  
Bombardier  
Bosch  
BP Amoco  
CIBC  
Cinram  
Epson  
Ericsson  
Exxon Mobil  
Ford Motor Company  
IBM  
JP Morgan  
KPMG  
Kuehne and Nagel  
Lockheed Martin  
Price Waterhouse Coopers  
Prudential Insurance  
World Bank





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