



Hammond Power
Solutions Inc.

your *first*
source for
transformers



Showcase of Products

Other HPS Products



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Hammond Power Solutions Inc. (HPS) is the North American stand-alone leader for the design and manufacture of high quality custom electrical dry-type transformers and related engineered magnetic devices. The company is also a significant producer of standard products that are built to industry wide specifications. HPS excels at designing products that have very specific size and power constraints for many demanding applications. Having an extensive engineering resource, HPS offers the broadest range of electrical products in the industry and as a result, the company has grown in many diverse markets and provides services to many global leaders.

Hammond Power Solutions Inc., with its headquarters in Guelph, Ontario, Canada, operates out of seven facilities:

Guelph, Ontario	Walkerton, Ontario	Monterrey, Mexico
Baraboo, Wisconsin	Compton, California	Granby, Quebec

QUALITY

HPS has been regarded for quality since its very inception. Customers have come to rely on our products and services and continue to depend on us for support at the most critical stages of their need. Our stability and integrity as a supplier are paramount particularly in an industry environment where demands must be resolved quickly and effectively. Extensive testing programs and an exemplary field service record ensures that HPS products not only meet all the standards necessary, but more importantly, fulfill customers expectations and requirements.

ISO 9001

With our commitment to 'Excellence' and 'Continuous Improvement', we build value and reliability into every HPS product. All facilities have implemented quality management systems based on ISO 9001:2008 with the Guelph facility having certification to that quality standard.

CUSTOMER SERVICE

HPS customer service personnel are available to answer questions immediately. Our teams are technically trained and are able to answer most questions over the phone. Stock checks, expediting, quotations or technical information are always readily available. The commitment to customer service means you will be an informed, relaxed and satisfied customer as quickly as possible.

DESIGN CAPABILITIES

HPS engineering services are located throughout the manufacturing facilities. Our designs are cost effective and our transformers are built with modern manufacturing techniques. We particularly emphasize our Value Added Engineering whereby our design staff will interface with your team to produce the optimum transformer. Our 3-D modelling design and CAD facilities permits quick and effective communication when time is vital.

OUR VISION

Keeping current with technology and innovation has been the key to our success. The vision of HPS is:

- A growing and profitable supplier of transformers and magnetics
- Supplied both direct as well as through distribution
- Providing exceptional service that includes:
 - A broad range of products to meet the global needs of our customers
 - Providing lead times defined by our markets



HPS IMPERATOR® ENCAPSULATED MACHINE TOOL INDUSTRIAL CONTROL TRANSFORMERS

HPS Imperator® transformers are used where high performance, reliability and quality are required to meet your needs.

- 11 standard voltage groups
- VA range from 50 VA to 1500 VA
- Available with standard secondary or optional primary fuse kits
- 8 terminations per side
- Patented unique terminal block design
- Innovative fusing method
- cULus listed, CE marked and RoHS compliant
- Lifetime Warranty (Limited)



HPS SPARTAN® INDUSTRIAL OPEN CORE & COIL CONTROL TRANSFORMERS

HPS Spartan® industrial open-style control transformers are ideally suited for general purpose, industrial, light duty loads.

- VA range from 50 VA to 5000 VA
- Molded terminal blocks for connections up to 3000 VA and coil face termination over 3000 VA
- Vacuum impregnated
- Bolted core construction
- Meets NEMA and ANSI standards
- CSA certified, UL listed, CE marked and RoHS compliant
- 15 year warranty



HPS FUSION™ GENERAL PURPOSE ENCLOSED TRANSFORMERS

HPS Fusion™ line of enclosed transformers are an indoor, cost effective approach specifically designed for applications such as: industrial lighting and circuit isolation, supplying motor control circuits and HVAC applications.

- Enclosed in a type 1 enclosure
- VA range from 50 VA to 5000 VA
- Molded terminal blocks for connections up to 3000 VA and coil face termination over 3000 VA
- Easy mounting and installation via four mounting slots and two keyhole slots
- CSA certified, UL listed, CE marked and RoHS compliant
- 15 year warranty

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HPS UNIVERSAL™ BUCK-BOOST TRANSFORMERS

HPS Universal™ offers an economical solution to the adjustment of line voltages that are slightly above or below normal. Standard features include:

- VA range from 50 VA to 5000 VA
- 1ph, welded core construction
- Made with high quality, high permeability silicon steel laminations
- Encapsulated core & coils in a combination silica sand and resin compound
- Type 3R enclosure (optional Type 4, 4X and 12 enclosures)
- 10 Year Warranty



HPS FORTRESS™ COMMERCIAL ENCAPSULATED TRANSFORMERS

The HPS Fortress™ is an innovative design that provides the ideal solution for commercial applications where quality, ease of installation, and low cost are key. Standard features include:

- 1ph ratings from 50 VA to 37.5 kVA, 3ph from 2 kVA to 150 kVA
- Standard shield on all 3ph units and 1ph units 750 VA and up
- Type 3R Enclosure
- CSA and UL approved
- 10 Year Warranty



HPS TITAN® ENCAPSULATED TRANSFORMERS FOR HAZARDOUS & HARSH LOCATIONS

The HPS Titan® series are specifically designed for installation in harsh environments. Typical applications are oil & gas plants, marine and shipboard installations, steel mills, mining, etc. Standard features include:

- 1ph ratings from 50 VA to 37.5 kVA, 3ph from 6 kVA to 150 kVA
- Type 3R enclosure (optional type 4, 12 or stainless)
- Meets UL Standard 1604 - Class 1, Division 2, Group A, B, C & D Hazardous Locations and ABS Type Approval
- Standard shield on all 1ph and 3ph units
- 10 Year Warranty



HPS POWERPLUS™ MINI POWER CENTERS

The HPS PowerPlus™ is a convenient pre-wired power center that saves you time, money, and space. Standard features include:

- 480 Primary, 120/240 Secondary
- 1ph ratings from 5 kVA to 25 kVA
- Shielded transformer
- Type 3R Enclosure
- cULus listed
- 15 Year Warranty on transformer
- 1 Year Warranty on Mini Power Center



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LINE REACTORS AND DV/DT FILTERS

HPS 'RM' series line reactors can be used on the input and output side of variable speed drives. The 'RC' series DV/DT filter combines the current limiting ability of an AC line reactor plus a resistive capacitance circuit that forms a damped, low pass filter. Standard features include:

- Sizes available for 0.5 to 1200 HP motors (600 HP for DV/DT)
- Maximum system voltage is 1.2 kV (600V for DV/DT)
- UL listed, CSA certified and CE marked
- Standard core & coil (optional TYPE 2 or 3R enclosure)
- Maximum 60 Hz
- DV/DT Switching frequency from 2.5 KHz up to 20 KHz
- 10 Year Warranty



MOTOR STARTING AUTOTRANSFORMERS

The motor starting autotransformer is suitable for use with magnetic or manually operated motor controllers. Standard features include:

- Three phase, 3 coil, standard designs, using economical open core and coil construction (two coil units also available)
- 150°C rise insulation
- Vacuum impregnation
- Heavy solid copper tabs with holes provide reliable termination
- Copper construction
- 1 Year Warranty



DRIVE ISOLATION TRANSFORMERS

HPS drive isolation transformers are suitable for both AC and DC variable speed drives. They are sized to match standard motor horsepower and voltage ratings. Standard features include:

- Standard Efficiency Drive Isolation
- HPS Tribune™ Energy Efficient Drive Isolation meets TP1 and C802.2 at 35% of rated load
- Meets UL and CSA short circuit withstand
- 3ph ratings from 7 kVA to 660 kVA in many voltages
- Available in aluminum, copper and optional shield
- Type 3R enclosure (optional type 4, 12 or stainless)
- 10 Year Warranty

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HPS SENTINEL® SERIES ENERGY EFFICIENT GENERAL PURPOSE TRANSFORMERS

Energy efficient general purpose transformers are designed for linear loads and are most frequently used for applications such as commercial buildings which will supply a variety of general loads (10 Year Warranty).

HPS Sentinel®

- Meets DOE 10 CFR Part 431 and C802.2 efficiencies; at 35% of rated load

HPS SuperSentinel®

- Exceeds DOE 10 CFR Part 431 and CSA C802.2 efficiencies at 35% of rated load
- Meets the NEMA Premium® guidelines



HPS SYNERGY® SERIES ENERGY EFFICIENT K-FACTOR TRANSFORMERS

Energy efficient k-factor transformers are designed to tolerate heating due to harmonics associated with non-linear loads (10 Year Warranty).

HPS Synergy®

- Meets DOE 10 CFR Part 431 and C802.2 efficiencies at 35% of rated load

HPS SuperSynergy®

- Efficiency will meet or exceed DOE 10 CFR Part 431 and CSA C802.2 standards for linear loads even at 50% of rated load when measured under a non-linear load up to K13
- Meets the NEMA Premium® guidelines



HPS CENTURION® SERIES ENERGY EFFICIENT HARMONIC MITIGATING TRANSFORMERS

Designed to treat the harmonics generated by computer equipment and other non-linear, power electronic loads (10 Year Warranty).

HPS Centurion®

- Meets DOE 10 CFR Part 431 and CSA C802.2 efficiencies at an operating range from 35%-65% of rated linear load and a non-linear load profile up to K20 in an operating range from 35% to 50%

HPS SuperCenturion®

- Exceeds DOE 10 CFR Part 431 and C802.2 efficiencies at 35% of rated load and when measured under a non-linear load profile up to K20 at an operating range of 35% to 65%
- Meets the NEMA Premium® guidelines



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HPS MILLENNIUM™ ENERGY EFFICIENT MEDIUM VOLTAGE DISTRIBUTION TRANSFORMERS

HPS Millennium™ 2.5 & 5 kV class transformers are designed to step down incoming high voltage power to utilize voltages for commercial, institutional or industrial applications. Standard features include:

- Meets DOE 10 CFR Part 431 and SOR/94-651 efficiency levels at 50% of rated load
- 1ph ratings from 15 kVA to 333 kVA, 3ph from 15 kVA to 1500 kVA
- Standard Primary Voltages of 2400 and 4160 volts
- UL listed and CSA certified
- Available in aluminum, copper and optional shield
- Type 3R enclosure (optional Type 4, 12 or stainless)
- 1 Year Warranty



DRY-TYPE MEDIUM VOLTAGE (POWER) DISTRIBUTION TRANSFORMERS

Our medium voltage (power) distribution transformers are regarded for their high level of quality and service reliability that has become synonymous with HPS transformer products. These transformers are suitable for any commercial, industrial manufacturing or production process application including the most demanding of environments.

- Ratings up to 34 MVA and 46 kV class
- Standard and Energy Efficient units available
- Environmentally friendly
- Encapsulation Resin or Epoxy
- Short Circuit with standability tested and documented
- Fully compliant with CSA, NEMA, ANSI, UL, and IEC
- 1 Year Warranty



SPECIALTY & CUSTOM TRANSFORMERS

HPS's extensive engineering experience, cost effective designs and manufacturing capability allows us to offer you the most complete line of specialty and custom transformers available anywhere.

- Cycloconverters
- Excitation Transformers
- Rectifier Duty Transformers
- Traction Duty Transformers
- Mining Duty and Excavator Transformers
- Large Indoor/Outdoor Current Limiting Air-Core Reactors
- 12, 18 and 24 Multi-Pulse Drive/Inverter Duty Transformers
- 1 Year Warranty

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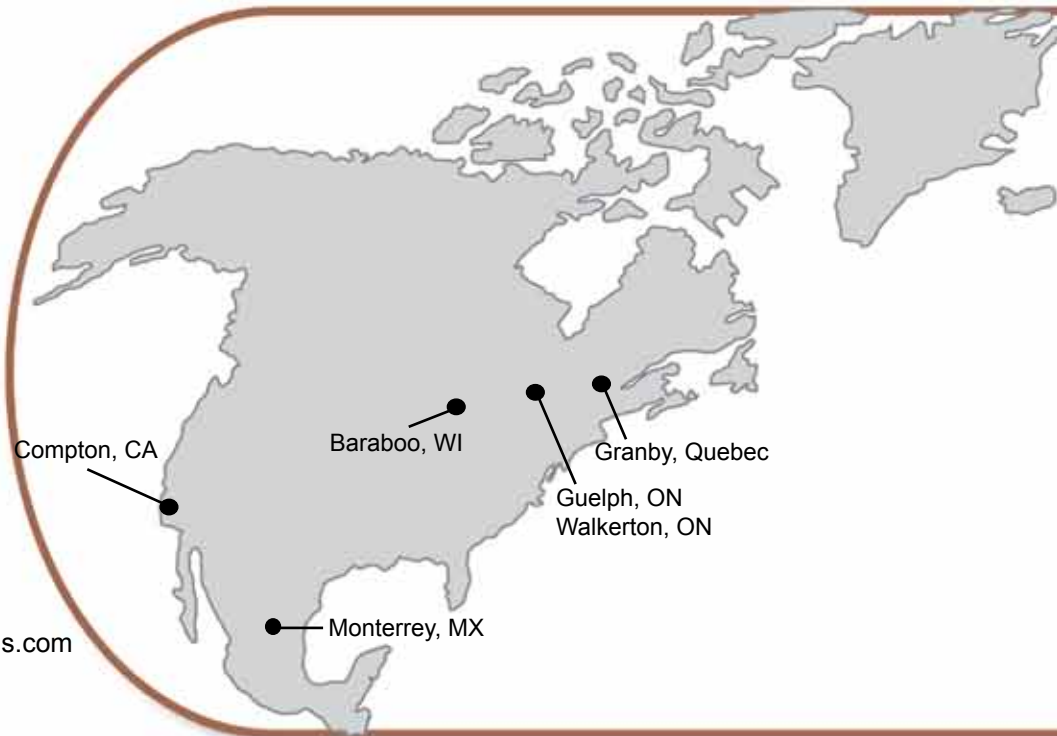
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