

## UL Certificate of Compliance

Power Quality International, LLC has successfully completed the 2 year long life-cycle testing of its insulation system for Cast Coil Transformers and received a UL Certificate of Compliance per UL1562 and IEEE Std. C57.12.01-2005 standards. PQI can now display an Underwriters Laboratories (UL) logo for Cast Coil Transformers up to 10MVA, 34.5kV, 180°C Insulation Class.

Power Quality International has produced Canadian Standards Association (CSA) Approved Cast Coil Transformers since 1997 with numerous installations across North America and around the world.

The addition of UL Certification in addition to CSA Approval is a testament to the enviable track record of quality, performance and reliability of Power Quality International's Cast Coil Transformers

## CSA & UL Qualification as a Test Facility

Both CSA and UL have approved PQI's Concord, Ontario manufacturing facility as a Qualified Product Evaluation and Test Facility. Measurements and test data generated during product evaluation is now accepted by both CSA and UL for product approval. We are proud of this

## Seismic Qualification and Certification

Power Quality International's Medium and Low Voltage Class, Dry-Type and Cast-Coil Transformers have been 'shake table' tested for seismic withstand capability. These steps were undertaken in an effort to better serve the needs of the US Department of Defense, and our clients in California and other locations in North America where OSHPD Seismic Pre-Certification is required for transformers and other power distribution devices. It gives us great pleasure to announce that we have received



*Cast-Coil Power TransFilter™*

achievement which reflects their confidence in our measurement and test capabilities, and in our professionalism when generating accurate and reliable evaluations.

Seismic Pre-Certification for all of our Medium and Low Voltage Class, Dry Type and Cast-Coil Transformers.

To accommodate our largest transformers, which weigh more than 26,000 lbs., a military laboratory was selected to perform the 'shake table' tests.

The sample selection and test criteria were planned in accordance with the requirements of the International Building Code 2012 (IBC2012), the California Building

Code 2013 (CAB2013) and the National building Code of Canada 2010 (NBC2010). In addition, the transformers specifically met the requirements of OSHPD (Office of Statewide Health Planning and Development of California). As previously mentioned, OSHPD has a program to 'pre-certify' devices, based on actual shake table testing.

OSHPD insists that all devices, including transformers, installed in California hospitals and related facilities are 'pre-certified' by OSHPD. Generally speaking, nearly all other new construction in California is also specifying OSHPD Seismic Pre-Certification as a requirement.

A detailed test report was prepared by an independent engineering firm detailing the test parameters and the maximum limits of seismic withstand capability that the sample products successfully demonstrated. Based on and supported by this report, PQI is now able to qualify and certify its products for seismic withstand capability and also provide formal certificates (product and/or installed geographic location specific) when specified by customers.

As required by the aforementioned codes, PQI transformers demonstrated their ability to function after the seismic tests.

- ! From 85 lbs. (7.5 kVA) to 748 lbs. (1500 kVA)  
Seismic Certification Limits – SDS=2.5g, z/h=1.0, Ip=1.5
  
- ! From 748 lbs. (55 kVA) to 21,950 lbs. (8500 kVA)  
Seismic certification Limits – SDS=2.1g, z/h=1.0, Ip=1.5

PQI can provide unit and/or geographic site specific Seismic Qualification and Compliance Certificates when specified.

For additional information contact Power Quality International, LLC



*Dry-Type Power TransFilter™*

*NOTE: These certification limits apply for solid base mounted transformers. Seismic requirements of anchors and anchoring requirements should be addressed by building and site engineers. Complete installation site and appliance specific analysis can be performed to determine anchoring and anchoring bed detail recommendations at additional cost.*

