



DEPARTMENT OF HEALTH CARE ACCESS AND INFORMATION
OFFICE OF STATEWIDE HOSPITAL PLANNING AND DEVELOPMENT

APPLICATION FOR HCAI SPECIAL SEISMIC
CERTIFICATION PREAPPROVAL (OSP)

OFFICE USE ONLY

APPLICATION #: OSP-0318

HCAI Special Seismic Certification Preapproval (OSP)

Type: ☐ New ☒ Renewal

Manufacturer Information

Manufacturer: Powersmiths International Corp

Manufacturer's Technical Representative: Des Faria

Mailing Address: 201 Westcreek Blvd., Brampton, ON L6T0G8

Telephone: (905) 791-1493 Email: dfaria@powersmiths.com

Product Information

Product Name: See Attachment

Product Model Number(s): See Attachment

Product Category: Transformers

Product Sub-Category: Transformers – Dry Type

General Description: Dry-Type transformer family with copper windings and no internal bracing. Including a range of materials and enclosure types. See attachment.

Mounting Description: Base Mounted Rigid

Tested Seismic Enhancements: Seismic enhancements made to the test units and/or modifications required to address anomalies during the tests shall be incorporated into the production units.

Applicant Information

Applicant Company Name: TRU Compliance, by Structural Integrity Associates

Contact Person: Daniel Zentner

Mailing Address: 233 SW Wilson Ave, Suite 101, Bend, OR 97702

Telephone: (541) 292-5839 Email: dzentner@structint.com

Title: Program Manager



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California Licensed Structural Engineer Responsible for the Engineering and Test Report(s)

Company Name: STRUCTURAL INTEGRITY ASSOCIATES, INC.

Name: LACHEZAR HANDZHIYSKI

California License Number: S6515

Mailing Address: 5215 Hellyer Avenue, Suite 210, San Jose, CA 95138

Telephone: (669) 437-0200

Email: Lhandzhiyski@StructInt.com

Certification Method

☐ GR-63-Core

☒ ICC-ES AC156

☐ IEEE 344

☐ IEEE 693

☐ NEBS 3

☐ Other (Please Specify): _____

Testing Laboratory

Company Name: UNIVERSITY OF BUFFALO (SEESL)

Contact Person: Yushan Fu

Mailing Address: 212 Ketter Hall, Buffalo NY 14260

Telephone: (716) 645-4377

Email: yushanfu@buffalo.edu

BY: Mohammad Karim

DATE: 01/22/2026



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Seismic Parameters

Certified Response Spectral Acceleration Factors: (F_p/W_p)

Horizontal (A Flx-H), $g =$ 2.88 (A Rig-H), $g =$ 1.94

Vertical (A Flx-V), $g =$ 1.20 (A Rig-V), $g =$ 0.48

SDS (Design spectral response acceleration at short period, g) = 1.8

H_f (Force amplification height factor) = 1 @ $z/h = 0$; 3.5 @ $z/h = 1$

R_u (Structure ductility reduction factor) = 1 @ $z/h = 0$; 1.3 @ $z/h = 1$

I_p (Importance factor) = 1.5

z/h (Height ratio factor) = 0 and 1

HCAI Approval (For Office Use Only) - Approval Expires on 01/22/2032

Date: 1/22/2026

Name: Mohammad Karim

Title: Supervisor, Health Facilities

Condition of Approval (if applicable): _____

OSP-0318

BY: Mohammad Karim

DATE: 01/22/2026

SPECIAL SEISMIC CERTIFICATION CERTIFIED COMPONENT MATRIX

2000448-CR-001-R1



Manufacturer: Powersmiths International Corp.						TABLE 1	
Model Line: Dry-Type Transformer							
Certified Product Construction Summary: Dry-Type transformers without internal seismic bracing, NEMA 1, 2 and 3R enclosures.							
Certified Options Summary: Copper and Aluminum Windings.							
Mounting Configuration: Base mounted - rigid Note: Installed mounting must be of similar configuration and equivalent strength and stiffness to those tested.							
Building Code: CBC 2025		Seismic Certification Limits:		$S_{DS} = 1.8 g$ $S_{DS} = 1.8 g$		$R_{\mu} = 1.3; H_f = 3.5; z/h = 1;$ $R_{\mu} = 1.0; H_f = 1.0; z/h = 0;$ $I_p = 1.5$	
Model Line ¹	Model	Dimensions (in)			Weight (lbs.) ²	Notes	UUT
		Depth	Width	Height			
OPAL Series E-Saver-80R E-Saver-81R E-Saver-10L E-Saver-33L E-Saver-10M E-Saver-20M E-Saver-10H E-Saver-20H E-Saver-25H E-Saver-35H E-Saver-50H E-Saver-25S E-Saver-35S E-Saver-25V T1000-30H	15 kVA	17	18	27.5	308	E-Saver-25H-15-480-208	4
	20 kVA	18	26	30	380		Interp.
	25 kVA	18	26	30	420		Interp.
	30 kVA	18	26	30	470		Interp.
	45 kVA	18	26	30	590		Interp.
	50 kVA	22	32	40	600		Interp.
	63 kVA	22	32	40	720		Interp.
	75 kVA	22	32	40	800		Interp.
	100 kVA	22	32	40	975		Interp.
	112.5 kVA	22	32	40	1100		Interp.
	125 kVA	27	38	48	1250		Interp.
	150 kVA	27	38	48	1400		Interp.
	175 kVA	27	38	48	1500		Interp.
	200 kVA	27	38	48	1600		Interp.
	225 kVA	32	38	52	1750		Interp.
	250 kVA	32	38	52	1850		Interp.
	300 kVA	32	38	52	2150		Interp.
	400 kVA	38	52	61	2650		Interp.
	450 kVA	38	52	61	2900		Interp.
	500 kVA	38	52	61	3030	E-Saver-25H-500-480-208	5
Additional Notes: 1. Efficiency Classification - See model number nomenclature in Table 1.1. 2. Maximum weights shown.							

TRU Compliance, by Structural Integrity Associates, Inc.

844-TRU-0200 | info@trucompliance.com

SPECIAL SEISMIC CERTIFICATION CERTIFIED COMPONENT MATRIX

2000448-CR-001-R1



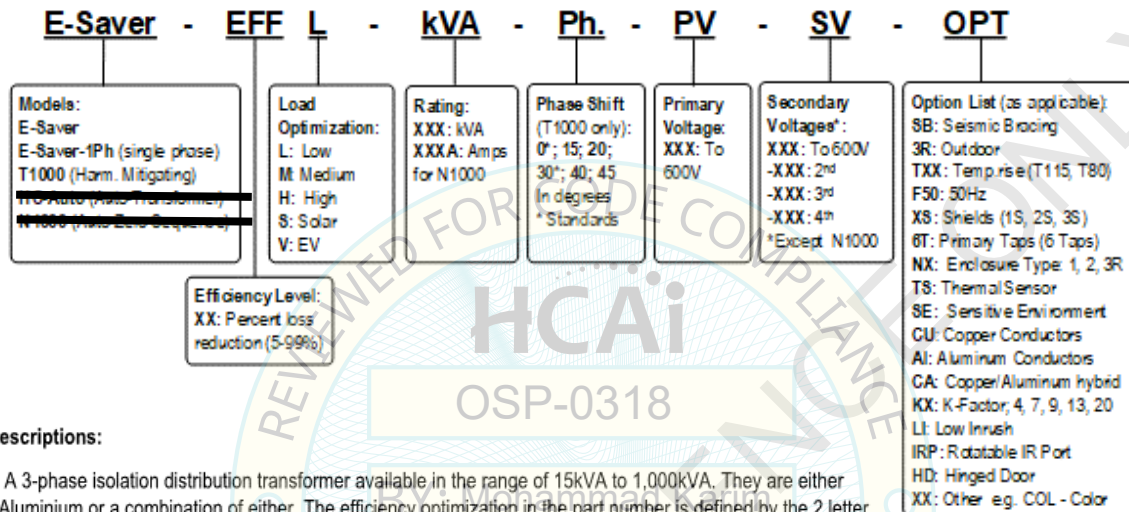
Manufacturer: Powersmiths International Corp.

Model Line: Dry-Type Transformer

TABLE 1.1

For Reference Only

OPAL Transformer Nomenclature:



Model Descriptions:

E-Saver: A 3-phase isolation distribution transformer available in the range of 15kVA to 1,000kVA. They are either Copper, Aluminum or a combination of either. The efficiency optimization in the part number is defined by the 2 letter numeric numbers followed by an alpha character following the model name. E-Saver-1PH is a single-phase version. The T1000 is a harmonic mitigating transformer with a model name that has been maintained due to existing branding for harmonic applications. The HC-AUTO is a auto transformer where the secondary is electrically connected to the primary for voltage ratio applications.

Model numbers are described following:

E-Saver-80R-kVA-PV-SV	Aluminum wound, efficiency optimized for lower loading applications
E-Saver-81R-kVA-PV-SV	Copper wound, efficiency optimized for lower loading applications
E-Saver-10L-kVA-PV-SV	Aluminum wound, efficiency optimized for low loading applications
E-Saver-33L-kVA-PV-SV	Copper wound, efficiency optimized for low loading applications
E-Saver-10M-kVA-PV-SV	Aluminum wound, efficiency optimized for average loading applications
E-Saver-20M-kVA-PV-SV	Copper wound, efficiency optimized for average loading applications
E-Saver-10H-kVA-PV-SV	Aluminum wound, efficiency optimized for high loading applications
E-Saver-20H-kVA-PV-SV	Aluminum wound, efficiency optimized for high loading applications
E-Saver-25H-kVA-PV-SV	Copper/Aluminum wound, efficiency optimized for high loading applications
E-Saver-35H-kVA-PV-SV	Copper/Aluminum wound, efficiency optimized for higher loading applications
E-Saver-50H-kVA-PV-SV	Copper/Aluminum wound, efficiency optimized for very high loading applications
E-Saver-25S-kVA-PV-SV	Aluminum wound, efficiency optimized for solar applications
E-Saver-35S-kVA-PV-SV	Copper wound, highly efficiency optimized for solar applications
E-Saver-25V-kVA-PV-SV	Copper/Aluminum wound, efficiency optimized for EV Charging applications
T1000-30H-kVA-PV-SV	Copper wound, efficiency optimized for Harmonic Mitigation applications
HC-AUTO-kVA-PV-SV	Copper or Aluminum wound voltage ratio transformer

Note: The Aluminum or Copper/Aluminum wound transformers are available as all copper versions with CU added in the options section of the nomenclature

SPECIAL SEISMIC CERTIFICATION CERTIFIED COMPONENT MATRIX

2000448-CR-001-R1



Manufacturer: Powersmiths International Corp.
Model Line: Dry-Type Transformer

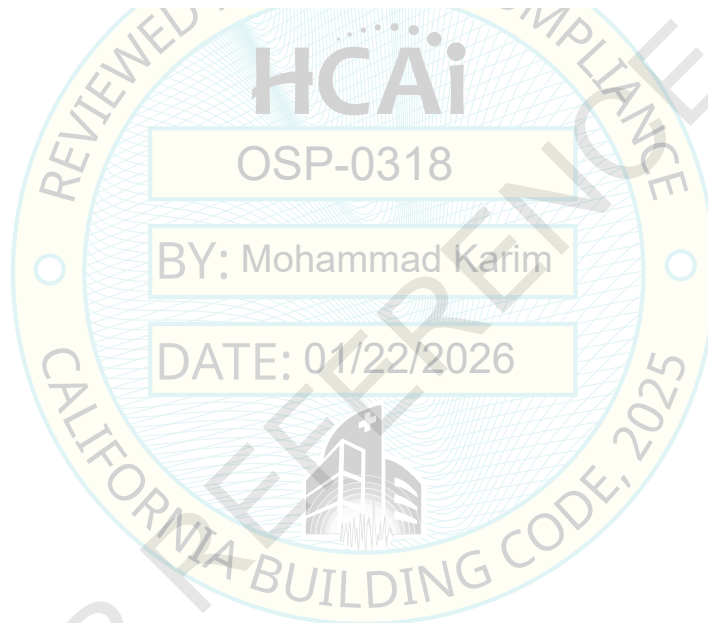
TABLE 1.1

For Reference Only

E-Saver-1Ph is the single-phase model

T1000: A 3-phase copper wound isolation transformer available from 15 to 1,000kVA optimized for harmonic mitigation applications. Typical model numbers include as follows but not limited to:

- E-Saver-35H-kVA-PV-SV...: Copper wound, efficiency optimized for higher loading harmonic mitigation applications



UNIT UNDER TEST (UUT) SUMMARY SHEET

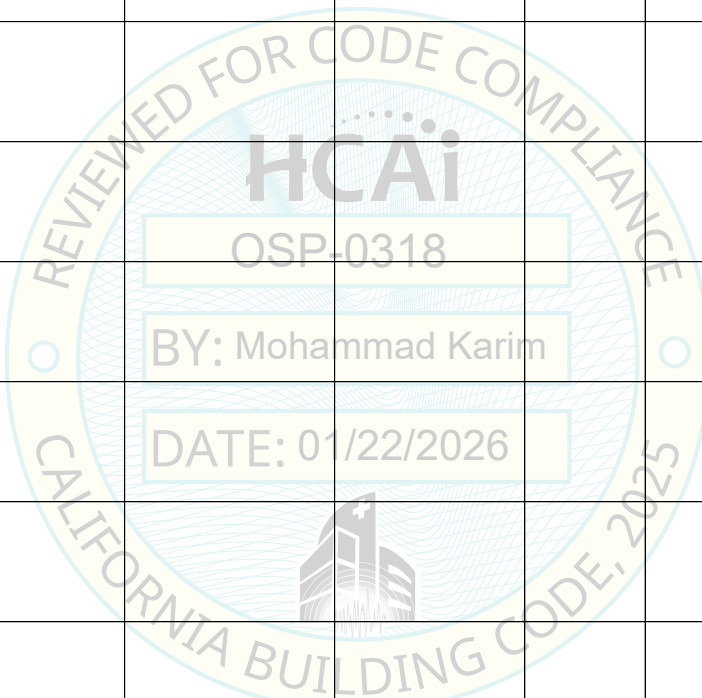
2000448-CR-001-R1



Manufacturer: Powersmiths International Corp.

Model Line: Dry-Type Transformer

UUT	Unit Description	Report Number (UUT#)	Testing Lab	Tested	ISO 17025 Accredited?	S _{DS}	R _μ	H _f	I _p
4	E-Saver OPAL (15 kVA) without seismic bracing	2000448-TR-001-R0 (UUT4)	SEESL ¹	9-Sept. 2020	Yes	1.80 1.80	1.3 1.0	3.5 1.0	1.5
5	E-Saver OPAL (500kVA) without seismic bracing	2000448-TR-002-R0 (UUT5)	SEESL ¹	8-Dec. 2020	Yes	1.80 1.80	1.3 1.0	3.5 1.0	1.5



Notes:

1. Structural and Earthquake Engineering and Simulation Labortory (SEESL)

UNIT UNDER TEST (UUT) SUMMARY SHEET


2000448-CR-001-R1



Manufacturer:	Powersmiths International Corp.	UUT 5
Model Line:	Dry-Type Transformer	
Product Function:	Dry-Type Transformer	
Model Number:	E-Saver-25H-500-480-208 (500kVA)	
Serial Number:	N/A	Test Report: 2000448-TR-002-R0 (UUT5)

UUT Properties						
Weight (lbs.)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
3,030	38.0	52.0	61.0	11.5	16.4	20.4

UUT Highest Passed Seismic Run Information										
Building Code	Test Criteria	S _{DS} (g)	R _μ	H _f	I _p	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)	
CBC 2025	ICC-ES AC156	1.80	1.3	3.5	1.5	2.88	1.94	1.20	0.48	
		1.80	1.0	1.0						

Product Construction Summary:	Test Mounting Details:
NEMA 3R enclosure, without internal seismic bracing. Aluminum and copper windings.	

Options/Subcomponent Summary:			
Description	Manufacturer	Part Number	
N/A	N/A	N/A	
			<p>UUT5 was base mounted-rigid using eight (8) 1/2"-13 Grade 5 bolts with flat washers and lock washers.</p> <p>Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test. Contents were included in testing per operating conditions.</p>