



OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT
FACILITIES DEVELOPMENT DIVISION

APPLICATION FOR OSHPD SPECIAL SEISMIC
CERTIFICATION PREAPPROVAL (OSP)

OFFICE USE ONLY

APPLICATION #: OSP – 0351 – 10

OSHPD Special Seismic Certification Preapproval (OSP)

Type: New Renewal

Manufacturer Information

Manufacturer: Powersmiths International Corp

Manufacturer's Technical Representative: Des Faria

Mailing Address: 10 Devon Road, Brampton, ON LT6 5B5

Telephone: 905.791.1493 x224 Email: des@powersmiths.com

Product Information

Product Name: Powersmiths Energy Station

Product Type: Power Distribution Unit – PDU

Product Model Number: See Attachment

(List all unique product identification numbers and/or part numbers)

General Description: Powersmiths Energy Station integrates an energy saving transformer, a main breaker, electrical distribution panels and a Cyberhawk power management system in a single compact unit.

Seismic enhancements made to the test units and modifications required to address anomalies observed during testing shall be incorporated into the production units.

Mounting Description: Rigid floor mounted

Applicant Information

Applicant Company Name: Tobolski Watkins Engineering, Inc.

Contact Person: Derrick A. Watkins, S.E.

Mailing Address: 9246 Lightwave Avenue, Suite 140, Sand Diego, CA 92123

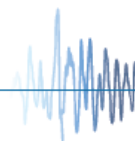
Telephone: 858.381.5843 Email: dwatkins@tobolskiwatkins.com

I hereby agree to reimburse the Office of Statewide Health Planning and Development review fees in accordance with the California Administrative Code, 2013.

Signature of Applicant: *Derrick Watkins* Date: 08/09/2013

Title: Executive Vice President Company Name: Tobolski Watkins Engineering, Inc.

"Access to Safe, Quality Healthcare Environments that Meet California's Diverse and Dvnamic Needs"





**OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT
FACILITIES DEVELOPMENT DIVISION**

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

Company Name: Tobolski Watkins Engineering, Inc.

Name: Nicholas J. Oberts, PE California License Number: C 63271

Mailing Address: 9246 Lightwave Avenue, Suite 140, Sand Diego, CA 92123

Telephone: 858.381.5843 Email: noberts@tobolskiwatkins.com

Supports and Attachments Preapproval

- Supports and attachments are preapproved under OPM- _____
(Separate application for OSHPD Preapproval of Manufacturer's Certification (OPM) of Supports and attachments is required)
- Supports and attachments are not preapproved

Certification Method

- Testing in accordance with: ICC-ES AC156
- Other (Please Specify): _____

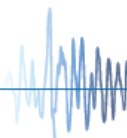
Testing Laboratory

Company Name: Clark Dynamic Test Laboratory, Inc.

Contact Name: J.R. Antenucci

Mailing Address: 1801 Route 51 South, Building 8, Jefferson Hills, PA 15025

Telephone: 412.387.1001 Email: jrantenucci@clarkdynamic.com





**OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT
FACILITIES DEVELOPMENT DIVISION**

Seismic Parameters

Design in accordance with ASCE 7-10 Chapter 13: Yes No

Design Basis of Equipment or Components (F_p/W_p) = 1.8

S_{DS} (Design spectral response acceleration at short period, g) = 2.5g

a_p (In-structure equipment or component amplification factor) = 1.0

R_p (Equipment or component response modification factor) = 2.5

Ω_0 (System overstrength factor) = 2.5

I_p (Importance factor) = 1.5

z/h (Height factor ratio) = 1.0

Equipment or Component Natural Frequencies (Hz) = (See attachment)

Overall dimensions and weight (or range thereof) = (See attachment)

Equipment or Components @ grade designed in accordance with ASCE 7-10 Chapter 15: Yes No

Design Basis of Equipment or Components (V/W) = _____

S_{DS} (Design spectral response acceleration at short period, g) = _____

S_{D1} (Design spectral response acceleration at 1 second period, g) = _____

R (Response modification coefficient) = _____

Ω_0 (System overstrength factor) = _____

C_d (Deflection amplification factor) = _____

I_p (Importance factor) = 1.5

Height to Center of Gravity above base = _____

Equipment or Component Natural Frequencies (Hz) = _____

Overall dimensions and weight (or range thereof) = _____

Tank(s) designed in accordance with ASME BPVC, 2010: Yes No

List of Attachments Supporting Special Seismic Certification

Test Report(s) Drawings Calculations Manufacturer's Catalog

Other(s) (Please Specify): Attachment

OSHPD Approval (For Office Use Only) – Approval Expires on December 31, 2019

Signature: 

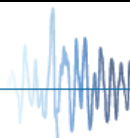
Date: August 26, 2013

Print Name: Timothy J. Piland

Title: SSE

Special Seismic Certification Valid Up to : S_{DS} (g) = 2.5 z/h = 1.0

Condition of Approval (if applicable): _____





UUT - 1

**UNIT UNDER TEST (UUT)
Summary Sheet**

TWEI Project No.: 2012-0155-CO-001

Manufacturer: Powersmiths International Corp.

Model Line: Power Distribution Unit - PDU

Model Number: ES-50-480-208-TC3-MET-BCMC-M3-WEB

Product Construction Summary:

Enclosure 3U33FA (32.0"D x 33.5"W x 78.0"H), NEMA Type 2 made of carbon steel.

Options/Subcomponent Summary:

Panelboard: Schneider NQ – 42 circuit counts (225A). **Circuit Breakers:** Schneider QOB 10A – 1 Pole (Qt.3), QOB 20A – 1 Pole (Qt.6), QOB 30A – 1 Pole (Qt.3), QOB 20A – 2 Pole (Qt.15). Schneider H-Frame (150 AF) 80A / HDL36080 (Qt.1); Schneider Q-Frame (225AF) 225A / QDL32225 (Qt. 1). **Touch Screen Display:** Schneider XBT GT1105. **Transformer:** Powersmiths T1000-C3-50kVA. **Cyberhawk:** Powersmiths Cyberhawk-EX0 P/N 202-003630-111, Power Meter. **Data Board:** Schneider BCPMC084S, BCPM (CT Strip) 2 Strips of 21 CTs, ¼" option. **Zone Defender PRO/ Surge Protection Device:** 100kA ZD16201.

UUT Properties

Weight (lb)	Dimensions (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
1156	32.0	33.5	78.0	23.40	14.15	12.10

UUT Highest Passed Seismic Run Information

Building Code	Test Criteria	S _{DS}	z/h	I _p	A _{FLX-H}	A _{RIG-H}	A _{FLX-V}	A _{RIG-V}
CBC 2013	ICC-ES AC 156	2.5g	1.0	1.5	4.00g	3.00g	1.67g	0.67g

Test Mounting Details:



Mounted to the seismic test table using eight ½"-13 Grade 5 Hex bolts.
Unit maintained structural integrity and remained functional per manufacturer requirement.

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UUT - 2

**UNIT UNDER TEST (UUT)
Summary Sheet**

TWEI Project No.: 2012-0155-CO-001

Manufacturer: Powersmiths International Corp.

Model Line: Power Distribution Unit - PDU

Model Number: ESH-500-480-208-MON-C5-WEB

Product Construction Summary:

Enclosure 7U49HD (49.0"D x 71.5"W x 78.0"H), NEMA Type 2 made of carbon steel.

Options/Subcomponent Summary:

Panelboard: *Schneider NQ* – 42 circuit counts (225A), 84 circuit counts (400A). *Schneider NF* – 18 circuit counts (125A), 54 circuit counts (400A). **ABB (ArTu):** 6 circuit counts (400A), 18 circuit counts (800A). **Circuit Breakers:** *Schneider* - QOB 50A - 3 Pole (Qt.2), QOB 80A – 3 Pole (Qt.32), QOB 100A – 3 Pole (Qt.2), E-Frame 20A – 1 Pole (Qt.3), E-Frame 15A – 2 Pole (Qt.1), E-Frame 60A – 2Pole (Qt.1), E-Frame 15A – 3Pole (Qt.24), E-Frame 30A – 3Pole (Qt.1), E-Frame 50A – 3Pole (Qt.1), E-Frame 80A – 3Pole (Qt.1), E-Frame 100A – 3Pole (Qt.1), J-Frame (250AF) 225A (Qt.1), L-Frame 600A (600AF) Adjust (Qt.1), P-Frame 800A (1200AF) Adjust (Qt.1), LA/LH 350A (400AF) (Qt. 2), *ABB* - T1 100A (160AF) (Qt.30), T3 225A (225AF) (Qt.1), T6 800A (800AF) (Qt.1). **Touch Screen Display:** Schneider XBT GT2220. **Transformer:** Powersmiths E-Saver-C3H. **Cyberhawk:** Powersmiths Cyberhawk-300 P/N 202-000846-103 600/480V. **Rotatable IR:** Powersmiths 3" window, angle 40 deg. **Moxa (WEB Server):** UC-7112-LX (Qt.2). **Zone Defender PRO/ Surge Protection Device:** 160kA ZD16401. **Control Transformer:** Rex CS75JB (Qt.2). **Fuse Holder:** Ferraz Shawmut USM3 (Qt.2)

UUT Properties

Weight (lb)	Dimensions (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
5008	49.0	71.5	78.0	19.90	10.78	17.10

UUT Highest Passed Seismic Run Information

Building Code	Test Criteria	S _{Ds}	z/h	I _p	A _{FLX-H}	A _{RIG-H}	A _{FLX-V}	A _{RIG-V}
CBC 2013	ICC-ES AC 156	2.5g	1.0	1.5	4.00g	3.00g	1.67g	0.67g

Test Mounting Details:



Mounted to the seismic test table using ten ½"-13 Grade 5 Hex bolts.
Unit maintained structural integrity and remained functional per manufacturer requirement.

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Special Seismic Certification Product Matrix Summary Sheet

TWEI Project No.: 2012-0155-CO-001

Manufacturer: Powersmiths International Corp.

Model Line: Power Distribution Unit - PDU

Table	Table Description	S _{DS}	z/h	I _p
1	Enclosure	2.5	1.0	1.5
2	Panelboard	2.5	1.0	1.5
3	Circuit Breakers	2.5	1.0	1.5
4	Touch Screen Display	2.5	1.0	1.5
5	Transformers	2.5	1.0	1.5
6	Miscellaneous	2.5	1.0	1.5

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Table 1

Special Seismic Certification Certified Product Matrix

TWEI Project No.: 2012-0155-CO-001

Manufacturer: Powersmiths International Corp.

Model Line: Power Distribution Unit - PDU

ENCLOSURE DETAIL

Certified Product Construction Summary:

Enclosure NEMA Type 2 made of carbon steel.

Certified Options Summary:

Certified Mounting Summary:

Rigid Base Mounted

Building Code: CBC 2013

Seismic Certification Limits:

$S_{DS} = 2.50g$

$z/h = 1.0$

$I_p = 1.5$

Model Line	kVA	Enclosure Type**	Dimension (in)			Unit Width	Weight (lb)	Weight /U (lbs)	Notes	UUT
			Depth	Width	Height					
ES-X	No Transformer	2U25HD	25.0	24.0	78.0	2U	575	288		
		2U33FA	32.0	24.0	78.0	2U	500	250		
		3U33FA	32.0	33.5	78.0	3U	625	313	Enclosure tested in UUT1	
		2U39FA	38.0	24.0	78.0	2U	550	275		
		3U39FA	38.0	33.5	78.0	3U	700	350		
		2U45FA	44.0	24.0	78.0	2U	605	303		
		3U45FA	44.0	33.5	78.0	3U	780	390		
		2U49FA	48.0	24.0	78.0	2U	665	333		
		3U49FA	48.0	33.5	78.0	3U	865	433		
ES-50	50	2U25FA	24.0	24.0	78.0	2U	1025	513		
		3U33FA	32.0	33.5	78.0	3U	1200	400	Enclosure tested in UUT1	1
ES-75	75	3U33FA	32.0	33.5	78.0	3U	1310	437	Enclosure tested in UUT1	
		4U33FA	32.0	43.0	78.0	4U	1435	359		
ES-112.5	112.5	4U33FA	32.0	43.0	78.0	4U	1820	455		
		5U33FA	32.0	52.5	78.0	5U	1945	389		
ESH-112.5		3U33HD	33.0	52.5	78.0	3U	1770	590		
ES-125	125	4U33FA	32.0	43.0	78.0	4U	2040	510		
		5U33FA	32.0	52.5	78.0	5U	2165	433		
ESH-125		3U33HD	33.0	33.5	78.0	3U	1990	663		
ES-150	150	4U33FA	32.0	43.0	78.0	4U	2315	579		
		5U33FA	32.0	52.5	78.0	5U	2440	488		
		6U33FA	32.0	62.0	78.0	6U	2565	428		
		7U33FA	32.0	71.5	78.0	7U	2690	384		

** - FA denotes front access for power input and distributions, HD denotes front and back access

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Table 1

Special Seismic Certification Certified Product Matrix

TWEI Project No.: 2012-0155-CO-001

Manufacturer: Powersmiths International Corp.

Model Line: Power Distribution Unit - PDU

ENCLOSURE DETAIL

Certified Product Construction Summary:
Enclosure NEMA Type 2 made of carbon steel.

Certified Options Summary:

Certified Mounting Summary:
Rigid Base Mounted

Building Code: CBC 2013

Seismic Certification Limits:

$S_{DS} = 2.50g$

$z/h = 1.0$

$I_p = 1.5$

Model Line	kVA	Enclosure Type**	Dimension (in)			Unit Width	Weight (lb)	Weight /U (lbs)	Notes	UUT
			Depth	Width	Height					
ESH-150	150	4U33HD	33.0	43.0	78.0	4U	2415	604		
ES-225	225	4U39FA	38.0	43.0	78.0	4U	2965	741		
		5U39FA	38.0	52.5	78.0	5U	3130	626		
		6U39FA	38.0	62.0	78.0	6U	3460	577		
		7U39FA	38.0	71.5	78.0	7U	3625	518		
ESH-225		4U45HD	45.0	43.0	78.0	4U	3065	766		
		5U45HD	45.0	52.5	78.0	5U	3230	646		
		6U45HD	45.0	62.0	78.0	6U	3560	593		
ES-300	300	4U39FA	38.0	43.0	78.0	4U	3130	783		
		5U39FA	38.0	52.5	78.0	5U	3280	656		
		6U39FA	38.0	62.0	78.0	6U	3430	572		
		7U39FA	38.0	71.5	78.0	7U	3580	511		
ESH-300		4U45HD	45.0	43.0	78.0	4U	3230	808		
		5U45HD	45.0	52.5	78.0	5U	3405	681		
		6U45HD	45.0	62.0	78.0	6U	3580	597		
ES-375	375	4U39FA	38.0	43.0	78.0	4U	3460	865		
		5U39FA	38.0	52.5	78.0	5U	3610	722		
		6U39FA	38.0	62.0	78.0	6U	3760	627		
		7U39FA	38.0	71.5	78.0	7U	3910	559		
ESH-375		4U45HD	45.0	43.0	78.0	4U	3560	890		
		5U45HD	45.0	52.5	78.0	5U	3735	747		
		6U45HD	45.0	62.0	78.0	6U	3910	652		

** - FA denotes front access for power input and distributions, HD denotes front and back access

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Table 1

Special Seismic Certification Certified Product Matrix

TWEI Project No.: 2012-0155-CO-001

Manufacturer: Powersmiths International Corp.

Model Line: Power Distribution Unit - PDU

ENCLOSURE DETAIL

Certified Product Construction Summary:
Enclosure NEMA Type 2 made of carbon steel.

Certified Options Summary:

Certified Mounting Summary:
Rigid Base Mounted

Building Code: CBC 2013

Seismic Certification Limits:

$S_{DS} = 2.50g$

$z/h = 1.0$

$I_p = 1.5$

Model Line	kVA	Enclosure Type**	Dimension (in)			Unit Width	Weight (lb)	Weight /U (lbs)	Notes	UUT
			Depth	Width	Height					
ES-400	400	4U39FA	38.0	43.0	78.0	4U	3625	906		
		5U39FA	38.0	52.5	78.0	5U	3775	755		
		6U39FA	38.0	62.0	78.0	6U	3925	654		
		7U39FA	38.0	71.5	78.0	7U	4075	582		
ESH-400	400	5U45HD	45.0	52.5	78.0	5U	3900	780		
		6U45HD	45.0	62.0	78.0	6U	4075	679		
		7U45HD	45.0	71.5	78.0	7U	4250	607		
ES-500	500	5U45FA	44.0	52.5	78.0	5U	4725	945		
		6U45FA	44.0	62.0	78.0	6U	4900	817		
		7U45FA	44.0	71.5	78.0	7U	5075	725		
ESH-500	500	5U49HD	49.0	52.5	78.0	5U	4850	970		
		6U49HD	49.0	62.0	78.0	6U	5050	842		
		7U49HD	49.0	71.5	78.0	7U	5050	721	Enclosure tested in UUT2	2
ES-750	750	6U49FA	48.0	71.5	78.0	6U	5450	908		
		7U49FA	48.0	62.0	78.0	7U	5625	804		

** - FA denotes front access for power input and distributions, HD denotes front and back access

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Table 2

Special Seismic Certification Certified Product Matrix

TWEI Project No.: 2012-0155-CO-001

Manufacturer: Powersmiths International Corp.

Model Line: Power Distribution Unit - PDU

PANELBOARD DETAIL

Certified Product Construction Summary:

Component construction specific to model number listed below.

Certified Options Summary:

Schneider - NQ Series: 208/120V, Main Rating 225A or 400A. **Schneider - NF Series:** 480/277V, Main Rating 125A, 250A or 400A. **ABB - ArTu:** 600V, Main Rating 400A or 800A.

Certified Mounting Summary:

Mounted in Equipment.

Building Code: CBC 2013

Seismic Certification Limits:

$S_{DS} = 2.50g$

$z/h = 1.0$

$I_p = 1.5$

Model Line	Model	Dimension (in)			Weight (lb)	Notes	UUT
		Depth	Width	Height			
Schneider (NQ-Series)	42 Circuit Counts	4.0	5.5	51.0	25	UUT: 225A tested	1
	42 Circuit Counts	4.3	12.5	27.0	18	UUT: 225A tested	2
	72 Circuit Counts	4.3	12.5	38.3	28		
	84 Circuit Counts	4.3	12.5	43.8	30	UUT: 400A tested	2
Schneider (NF-Series)	18 Circuit Counts	4.5	12.5	18.0	8	UUT: 125A tested	2
	30 Circuit Counts	4.5	12.5	24.0	16		
	42 Circuit Counts	4.5	12.5	30.0	32		
	54 Circuit Counts	4.5	12.5	37	30	UUT: 400A tested	2
	66 Circuit Counts	4.5	12.5	49	36		
ABB (ArTu)	6 Circuit Counts	2.5	8.0	17.2	10	UUT: 400A tested	2
	10 Circuit Counts	2.5	8.0	25.5	15		
	12 Circuit Counts	2.5	8.0	29.6	18		
	18 Circuit Counts	2.5	8.0	42.0	20	UUT: 800A tested	2

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Table 3

Special Seismic Certification Certified Product Matrix

TWEI Project No.: 2012-0155-CO-001

Manufacturer: Powersmiths International Corp.

Model Line: Power Distribution Unit - PDU

CIRCUIT BREAKERS DETAIL

Certified Product Construction Summary:

Component construction specific to model number listed below. Breaker contacts are copper.

Certified Options Summary:

Trip unit type: Thermal-Magnetic (TM), Micrologic Electronic (ME) or Electronic (E). 1-4 Pole. Various interrupt capacities. Within manufacturer and frame sizes all components are identical except for:

- Slight variations in the bimetallic strip (for TM breakers)
- Difference in software (ME and E)
- Slight variations in arc chute assembly (stack of small metal plates) for interrupting capacity ratings

Certified Mounting Summary:

Mounted in Equipment.

Building Code: CBC 2013

Seismic Certification Limits:

$S_{DS} = 2.50g$

$z/h = 1.0$

$I_p = 1.5$

Model Line	Model	P/N	Dimension (in)			Weight (lb)	Type	Notes	UUT
			Depth	Width	Height				
Schneider	QOB 10A, 1Pole	QOB110	2.47	0.75	2.94	0.4	TM		1 (Qt. 3)
	QOB 15A, 1Pole	QOB115	2.47	0.75	2.94	0.4	TM		
	QOB 20A, 1Pole	QOB120	2.47	0.75	2.94	0.4	TM		1 (Qt. 6)
	QOB 25A, 1Pole	QOB125	2.47	0.75	2.94	0.4	TM		
	QOB 30A, 1Pole	QOB130	2.47	0.75	2.94	0.4	TM		1 (Qt. 3)
	QOB 10A, 2Pole	QOB210	2.47	1.50	2.94	0.7	TM		
	QOB 15A, 2Pole	QOB215	2.47	1.50	2.94	0.7	TM		
	QOB 20A, 2Pole	QOB220	2.47	1.50	2.94	0.7	TM		1 (Qt.15)
	QOB 25A, 2Pole	QOB225	2.47	1.50	2.94	0.7	TM		
	QOB 30A, 2Pole	QOB230	2.47	1.50	2.94	0.7	TM		
	QOB 35A, 2Pole	QOB235	2.47	1.50	2.94	0.7	TM		
	QOB 40A, 2Pole	QOB240	2.47	1.50	2.94	0.7	TM		
	QOB 45A, 2Pole	QOB245	2.47	1.50	2.94	0.7	TM		
	QOB 50A, 2Pole	QOB250	2.47	1.50	2.94	0.7	TM		2 (Qt. 3)
	QOB 60A, 2Pole	QOB260	2.47	1.50	2.94	0.7	TM		
	QOB 70A, 2Pole	QOB270	2.47	1.50	2.94	0.7	TM		
	QOB 80A, 2Pole	QOB280	2.47	1.50	2.94	0.7	TM		
	QOB 90A, 2Pole	QOB290	2.47	1.50	2.94	0.7	TM		
	QOB 100A, 2Pole	QOB2100	2.47	1.50	2.94	0.7	TM		2 (Qt. 3)
	QOB 10A, 3Pole	QOB310	2.47	2.25	2.94	1.0	TM		
QOB 15A, 3Pole	QOB315	2.47	2.25	2.94	1.0	TM		2 (Qt. 2)	
QOB 20A, 3Pole	QOB320	2.47	2.25	2.94	1.0	TM			
QOB 25A, 3Pole	QOB325	2.47	2.25	2.94	1.0	TM			

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Table 3

Special Seismic Certification Certified Product Matrix

TWEI Project No.: 2012-0155-CO-001

Manufacturer: Powersmiths International Corp.

Model Line: Power Distribution Unit - PDU

CIRCUIT BREAKERS DETAIL

Certified Product Construction Summary:

Component construction specific to model number listed below. Breaker contacts are copper.

Certified Options Summary:

Trip unit type: Thermal-Magnetic (TM), Micrologic Electronic (ME) or Electronic (E). 1-4 Pole. Various interrupt capacities. Within manufacturer and frame sizes all components are identical except for:

- Slight variations in the bimetallic strip (for TM breakers)
- Difference in software (ME and E)
- Slight variations in arc chute assembly (stack of small metal plates) for interrupting capacity ratings

Certified Mounting Summary:

Mounted in Equipment.

Building Code: CBC 2013

Seismic Certification Limits:

$S_{DS} = 2.50g$

$z/h = 1.0$

$I_p = 1.5$

Model Line	Model	P/N	Dimension (in)			Weight (lb)	Type	Notes	UUT
			Depth	Width	Height				
Schneider	QOB 30A, 3Pole	QOB330	2.47	2.25	2.94	1.0	TM		2 (Qt. 16)
	QOB 35A, 3Pole	QOB335	2.47	2.25	2.94	1.0	TM		
	QOB 40A, 3Pole	QOB340	2.47	2.25	2.94	1.0	TM		
	QOB 45A, 3Pole	QOB345	2.47	2.25	2.94	1.0	TM		
	QOB 50A, 3Pole	QOB350	2.47	2.25	2.94	1.0	TM		2 (Qt. 4)
	QOB 60A, 3Pole	QOB360	2.47	2.25	2.94	1.0	TM		
	QOB 70A, 3Pole	QOB370	2.47	2.25	2.94	1.0	TM		
	QOB 80A, 3Pole	QOB380	2.47	2.25	2.94	1.0	TM		2 (Qt. 12)
	QOB 90A, 3Pole	QOB390	2.47	2.25	2.94	1.0	TM		
	QOB 100A, 3Pole	QOB3100	2.47	2.25	2.94	1.0	TM		2 (Qt. 4)
	QOB 110A, 3Pole	QOB3110	2.47	2.25	2.94	1.0	TM		
	E-Frame 10A, 1Pole	E*B14010	3.43	1.00	5.8	1.2	TM		
	E-Frame 15A, 1Pole	E*B14015	3.43	1.00	5.8	1.2	TM		
	E-Frame 20A, 1Pole	E*B14020	3.43	1.00	5.8	1.2	TM	UUT: EDB14020	2 (Qt. 2)
	E-Frame 30A, 1Pole	E*B14030	3.43	1.00	5.8	1.2	TM		
	E-Frame 15A, 2Pole	E*B24015	3.43	2.00	5.8	2.2	TM	UUT: EDB24015	2 (Qt. 1)
	E-Frame 20A, 2Pole	E*B24020	3.43	2.00	5.8	2.2	TM		
	E-Frame 25A, 2Pole	E*B24025	3.43	2.00	5.8	2.2	TM		
	E-Frame 30A, 2Pole	E*B24030	3.43	2.00	5.8	2.2	TM		
	E-Frame 35A, 2Pole	E*B24035	3.43	2.00	5.8	2.2	TM		
E-Frame 40A, 2Pole	E*B24040	3.43	2.00	5.8	2.2	TM			

* Indicates interrupt capacity of E-Frame breaker, D = 18kA@480/277V; G = 35kA@480/277V and J = 35kA@480/277V

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Table 3

Special Seismic Certification Certified Product Matrix

TWEI Project No.: 2012-0155-CO-001

Manufacturer: Powersmiths International Corp.

Model Line: Power Distribution Unit - PDU

CIRCUIT BREAKERS DETAIL

Certified Product Construction Summary:

Component construction specific to model number listed below. Breaker contacts are copper.

Certified Options Summary:

Trip unit type: Thermal-Magnetic (TM), Micrologic Electronic (ME) or Electronic (E). 1-4 Pole. Various interrupt capacities. Within manufacturer and frame sizes all components are identical except for:

- Slight variations in the bimetallic strip (for TM breakers)
- Difference in software (ME and E)
- Slight variations in arc chute assembly (stack of small metal plates) for interrupting capacity ratings

Certified Mounting Summary:

Mounted in Equipment.

Building Code: CBC 2013

Seismic Certification Limits:

$S_{DS} = 2.50g$

$z/h = 1.0$

$I_p = 1.5$

Model Line	Model	P/N	Dimension (in)			Weight (lb)	Type	Notes	UUT	
			Depth	Width	Height					
Schneider	E-Frame 45A, 2Pole	E*B24045	3.43	2.00	5.8	2.2	TM			
	E-Frame 50A, 2Pole	E*B24050	3.43	2.00	5.8	2.2	TM			
	E-Frame 60A, 2Pole	E*B24060	3.43	2.00	5.8	2.2	TM	UUT: EDB24060	2 (Qt. 1)	
	E-Frame 10A, 3Pole	E*B34010	3.43	3.00	5.8	3.0	TM			
	E-Frame 15A, 3Pole	E*B34015	3.43	3.00	5.8	3.0	TM	UUT: EDB34015	2 (Qt. 18)	
	E-Frame 20A, 3Pole	E*B34020	3.43	3.00	5.8	3.0	TM			
	E-Frame 25A, 3Pole	E*B34025	3.43	3.00	5.8	3.0	TM			
	E-Frame 30A, 3Pole	E*B34030	3.43	3.00	5.8	3.0	TM	UUT: EDB34030	2 (Qt. 1)	
	E-Frame 35A, 3Pole	E*B34035	3.43	3.00	5.8	3.0	TM			
	E-Frame 40A, 3Pole	E*B34040	3.43	3.00	5.8	3.0	TM			
	E-Frame 45A, 3Pole	E*B34045	3.43	3.00	5.8	3.0	TM			
	E-Frame 50A, 3Pole	E*B34050	3.43	3.00	5.8	3.0	TM	UUT: EDB34050	2 (Qt. 1)	
	E-Frame 60A, 3Pole	E*B34060	3.43	3.00	5.8	3.0	TM			
	E-Frame 70A, 3Pole	E*B34070	3.43	3.00	5.8	3.0	TM			
	E-Frame 80A, 3Pole	E*B34080	3.43	3.00	5.8	3.0	TM	UUT: EDB34080	2 (Qt. 1)	
	E-Frame 90A, 3Pole	E*B34090	3.43	3.00	5.8	3.0	TM			
	E-Frame 100A, 3Pole	E*B34100	3.43	3.00	5.8	3.0	TM	UUT: EDB34100	2 (Qt. 1)	
	E-Frame 110A, 3Pole	E*B34110	3.43	3.00	5.8	3.0	TM			
	* Indicates interrupt capacity of E-Frame breaker, D = 18kA@480/277V; G = 35kA@480/277V and J = 35kA@480/277V									
		H-Frame (150 AF) 15A	H*L36015	3.74	4.12	6.4	4.2	TM		
	H-Frame (150 AF) 20A	H*L36020	3.74	4.12	6.4	4.2	TM			
	H-Frame (150 AF) 25A	H*L36025	3.74	4.12	6.4	4.2	TM			
	H-Frame (150 AF) 30A	H*L36030	3.74	4.12	6.4	4.2	TM			

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Table 3

Special Seismic Certification Certified Product Matrix

TWEI Project No.: 2012-0155-CO-001

Manufacturer: Powersmiths International Corp.

Model Line: Power Distribution Unit - PDU

CIRCUIT BREAKERS DETAIL

Certified Product Construction Summary:

Component construction specific to model number listed below. Breaker contacts are copper.

Certified Options Summary:

Trip unit type: Thermal-Magnetic (TM), Micrologic Electronic (ME) or Electronic (E). 1-4 Pole. Various interrupt capacities. Within manufacturer and frame sizes all components are identical except for:

- Slight variations in the bimetallic strip (for TM breakers)
- Difference in software (ME and E)
- Slight variations in arc chute assembly (stack of small metal plates) for interrupting capacity ratings

Certified Mounting Summary:

Mounted in Equipment.

Building Code: CBC 2013

Seismic Certification Limits:

$S_{DS} = 2.50g$

$z/h = 1.0$

$I_p = 1.5$

Model Line	Model	P/N	Dimension (in)			Weight (lb)	Type	Notes	UUT	
			Depth	Width	Height					
Schneider	H-Frame (150 AF) 35A	H*L36035	3.74	4.12	6.4	4.2	TM			
	H-Frame (150 AF) 40A	H*L36040	3.74	4.12	6.4	4.2	TM			
	H-Frame (150 AF) 45A	H*L36045	3.74	4.12	6.4	4.2	TM			
	H-Frame (150 AF) 50A	H*L36050	3.74	4.12	6.4	4.2	TM			
	H-Frame (150 AF) 60A	H*L36060	3.74	4.12	6.4	4.2	TM			
	H-Frame (150 AF) 70A	H*L36070	3.74	4.12	6.4	4.2	TM			
	H-Frame (150 AF) 80A	H*L36080	3.74	4.12	6.4	4.2	TM	UUT: HDL36080	1 (Qt. 1)	
	H-Frame (150 AF) 90A	H*L36090	3.74	4.12	6.4	4.2	TM			
	H-Frame (150 AF) 100A	H*L36100	3.74	4.12	6.4	4.2	TM			
	H-Frame (150 AF) 110A	H*L36110	3.74	4.12	6.4	4.2	TM			
	H-Frame (150 AF) 125A	H*L36125	3.74	4.12	6.4	4.2	TM			
	H-Frame (150 AF) 150A	H*L36150	3.74	4.12	6.4	4.2	TM			
	* Indicates interrupt capacity of H-Frame breaker, D = 18kA@480V; G = 35kA@480V, J = 65kA@480V and L = 100kA@480V									
	J-Frame (250AF) 150A	J*L36150	3.74	4.12	7.52	4.6	ME			
	J-Frame (250AF) 175A	J*L36175	3.74	4.12	7.52	4.6	ME			
	J-Frame (250AF) 200A	J*L36200	3.74	4.12	7.52	4.6	ME			
	J-Frame (250AF) 225A	J*L36225	3.74	4.12	7.52	4.6	ME	UUT: JDL36225	2 (Qt. 1)	
	J-Frame (250AF) 250A	J*L36250	3.74	4.12	7.52	4.6	ME			
* Indicates interrupt capacity of J-Frame breaker, D = 18kA@480V; G = 35kA@480V, J = 65kA@480V and L = 100kA@480V										

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Table 3

**Special Seismic Certification
Certified Product Matrix**

TWEI Project No.: 2012-0155-CO-001

Manufacturer: Powersmiths International Corp.

Model Line: Power Distribution Unit - PDU

CIRCUIT BREAKERS DETAIL

Certified Product Construction Summary:

Component construction specific to model number listed below. Breaker contacts are copper.

Certified Options Summary:

Trip unit type: Thermal-Magnetic (TM), Micrologic Electronic (ME) or Electronic (E). 1-4 Pole. Various interrupt capacities. Within manufacturer and frame sizes all components are identical except for:

- Slight variations in the bimetallic strip (for TM breakers)
- Difference in software (ME and E)
- Slight variations in arc chute assembly (stack of small metal plates) for interrupting capacity ratings

Certified Mounting Summary:

Mounted in Equipment.

Building Code: CBC 2013

Seismic Certification Limits:

$S_{DS} = 2.50g$

$z/h = 1.0$

$I_p = 1.5$

Model Line	Model	P/N	Dimension (in)			Weight (lb)	Type	Notes	UUT	
			Depth	Width	Height					
Schneider	L-Frame (600 AF) 250A Adjust.	L*L36250 U31X	4.33	5.51	13.38	12.1	ME			
	L-Frame (600 AF) 400A Adjust.	L*L36400 U31X	4.33	5.51	13.38	12.1	ME			
	L-Frame (600 AF) 600A Adjust.	L*L36600 U31X	4.33	5.51	13.38	12.1	ME	UUT: LGL36600U31X	2 (Qt. 1)	
	* Indicates interrupt capacity of L-Frame breaker, D = 18kA@480V; G = 35kA@480V, J = 65kA@480V and L = 100kA@480V									
	P-Frame 250A (1200 AF) Adjust.	P*L36025 U31A	5.77	8.27	12.86	32.0	ME			
	P-Frame 400A (1200 AF) Adjust.	P*L36040 U31A	5.77	8.27	12.86	32.0	ME			
	P-Frame 600A (1200 AF) Adjust.	P*L36060 U31A	5.77	8.27	12.86	32.0	ME			
	P-Frame 800A (1200 AF) Adjust.	P*L36080 U31A	5.77	8.27	12.86	32.0	ME	UUT: PJL36080U31A	2 (Qt. 1)	
	P-Frame 1000A (1200 AF) Adjust.	P*L36100 U31A	5.77	8.27	12.86	32.0	ME			
	P-Frame 1200A (1200 AF) Adjust.	P*L36120 U31A	5.77	8.27	12.86	32.0	ME			
* Indicates interrupt capacity of P-Frame breaker, D = 18kA@480V; G = 35kA@480V, J = 65kA@480V and L = 100kA@480V										

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Table 3

Special Seismic Certification Certified Product Matrix

TWEI Project No.: 2012-0155-CO-001

Manufacturer: Powersmiths International Corp.

Model Line: Power Distribution Unit - PDU

CIRCUIT BREAKERS DETAIL

Certified Product Construction Summary:

Component construction specific to model number listed below. Breaker contacts are copper.

Certified Options Summary:

Trip unit type: Thermal-Magnetic (TM), Micrologic Electronic (ME) or Electronic (E). 1-4 Pole. Various interrupt capacities. Within manufacturer and frame sizes all components are identical except for:

- Slight variations in the bimetallic strip (for TM breakers)
- Difference in software (ME and E)
- Slight variations in arc chute assembly (stack of small metal plates) for interrupting capacity ratings

Certified Mounting Summary:

Mounted in Equipment.

Building Code: CBC 2013

Seismic Certification Limits:

$S_{DS} = 2.50g$

$z/h = 1.0$

$I_p = 1.5$

Model Line	Model	P/N	Dimension (in)			Weight (lb)	Type	Notes	UUT	
			Depth	Width	Height					
Schneider	Q-Frame 70A (225AF)	QDL32070	3.41	4.50	6.47	4.0	TM			
	Q-Frame 80A (225AF)	QDL32080	3.41	4.50	6.47	4.0	TM			
	Q-Frame 90A (225AF)	QDL32090	3.41	4.50	6.47	4.0	TM			
	Q-Frame 100A (225AF)	QDL32100	3.41	4.50	6.47	4.0	TM			
	Q-Frame 110A (225AF)	QDL32110	3.41	4.50	6.47	4.0	TM			
	Q-Frame 125A (225AF)	QDL32120	3.41	4.50	6.47	4.0	TM			
	Q-Frame 150A (225AF)	QDL32150	3.41	4.50	6.47	4.0	TM			
	Q-Frame 175A (225AF)	QDL32175	3.41	4.50	6.47	4.0	TM			
	Q-Frame 200A (225AF)	QDL32200	3.41	4.50	6.47	4.0	TM			
	Q-Frame 225A (225AF)	QDL32225	3.41	4.50	6.47	4.0	TM		1 (Qt. 1)	
		LA/LH 250A (400 AF)	LHL36250	4.02	5.98	11.00	15.0	TM		
		LA/LH 300A (400 AF)	LHL36300	4.02	5.98	11.00	15.0	TM		
		LA/LH 350A (400 AF)	LHL36350	4.02	5.98	11.00	15.0	TM		2 (Qt.2)
	LA/LH 400A (400 AF)	LHL36400	4.02	5.98	11.00	15.0	TM			
ABB	T1 16A (160AF)	T1*016TL	3.07	3.00	5.15	2.3	TM			
	T1 20A (160AF)	T1*020TL	3.07	3.00	5.15	2.3	TM			
	T1 25A (160AF)	T1*025TL	3.07	3.00	5.15	2.3	TM			
	T1 32A (160AF)	T1*032TL	3.07	3.00	5.15	2.3	TM			
	T1 40A (160AF)	T1*040TL	3.07	3.00	5.15	2.3	TM			
	T1 50A (160AF)	T1*050TL	3.07	3.00	5.15	2.3	TM			

* Indicates interrupt capacity of T1 breaker, N = 22kA@480V

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Table 3

Special Seismic Certification Certified Product Matrix

TWEI Project No.: 2012-0155-CO-001

Manufacturer: Powersmiths International Corp.

Model Line: Power Distribution Unit - PDU

CIRCUIT BREAKERS DETAIL

Certified Product Construction Summary:

Component construction specific to model number listed below. Breaker contacts are copper.

Certified Options Summary:

Trip unit type: Thermal-Magnetic (TM), Micrologic Electronic (ME) or Electronic (E). 1-4 Pole. Various interrupt capacities. Within manufacturer and frame sizes all components are identical except for:

- Slight variations in the bimetallic strip (for TM breakers)
- Difference in software (ME and E)
- Slight variations in arc chute assembly (stack of small metal plates) for interrupting capacity ratings

Certified Mounting Summary:

Mounted in Equipment.

Building Code: CBC 2013

Seismic Certification Limits:

$S_{DS} = 2.50g$

$z/h = 1.0$

$I_p = 1.5$

Model Line	Model	P/N	Dimension (in)			Weight (lb)	Type	Notes	UUT	
			Depth	Width	Height					
ABB	T1 63A (160AF)	T1*063TL	3.07	3.00	5.15	2.3	TM			
	T1 80A (160AF)	T1*080TL	3.07	3.00	5.15	2.3	TM			
	T1 100A (160AF)	T1*100TL	3.07	3.00	5.15	2.3	TM	UUT: T1N100T	2 (Qt.28)	
	T1 125A (160AF)	T1*125TL	3.07	3.00	5.15	2.3	TM			
	T1 160A (160AF)	T1*160TL	3.07	3.00	5.15	2.3	TM			
	<i>* Indicates interrupt capacity of T1 breaker, N = 22kA@480V</i>									
	T3 63A (225AF)	T3*063TL	3.07	4.13	5.91	5.5	TM			
	T3 80A (225AF)	T3*080TL	3.07	4.13	5.91	5.5	TM			
	T3 100A (225AF)	T3*100TL	3.07	4.13	5.91	5.5	TM			
	T3 125A (225AF)	T3*125TL	3.07	4.13	5.91	5.5	TM			
	T3 160A (225AF)	T3*160TL	3.07	4.13	5.91	5.5	TM			
	T3 200A (225AF)	T3*20TL	3.07	4.13	5.91	5.5	TM			
	T3 225A (225AF)	T3*225TL	3.07	4.13	5.91	5.5	TM	UUT: T3N225TL	2 (QT. 1)	
	<i>* Indicates interrupt capacity of T3 breaker, N = 25kA@480V; S = 35kA@480V</i>									
	T4 100A (320AF)	T4*100TL	4.07	4.13	8.07	6.2	TM			
	T4 160A (320AF)	T4*160TL	4.07	4.13	8.07	6.2	TM			
	T4 250A (320AF)	T4*250TL	4.07	4.13	8.07	6.2	TM			
	T4 320A (320AF)	T4*320TL	4.07	4.13	8.07	6.2	TM			
	<i>* Indicates interrupt capacity of T4 breaker, N = 20kA@480V; S = 25kA@480V; H = 40kA@480V</i>									
	T5 320A (500AF)	T5*320TL	4.07	5.49	8.07	8.5	TM			
T5 400A (500AF)	T5*400TL	4.07	5.49	8.07	8.5	TM	UUT: T5S400TW	2 (Qt. 1)		
T5 500A (500AF)	T5*400TL	4.07	5.49	8.07	8.5	TM				
<i>* Indicates interrupt capacity of T5 breaker, N = 20kA@480V; S = 25kA@480V; H = 40kA@480V</i>										

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Table 3

Special Seismic Certification Certified Product Matrix

TWEI Project No.: 2012-0155-CO-001

Manufacturer: Powersmiths International Corp.

Model Line: Power Distribution Unit - PDU

CIRCUIT BREAKERS DETAIL

Certified Product Construction Summary:

Component construction specific to model number listed below. Breaker contacts are copper.

Certified Options Summary:

Trip unit type: Thermal-Magnetic (TM), Micrologic Electronic (ME) or Electronic (E). 1-4 Pole. Various interrupt capacities. Within manufacturer and frame sizes all components are identical except for:

- Slight variations in the bimetallic strip (for TM breakers)
- Difference in software (ME and E)
- Slight variations in arc chute assembly (stack of small metal plates) for interrupting capacity ratings

Certified Mounting Summary:

Mounted in Equipment.

Building Code: CBC 2013

Seismic Certification Limits:

$S_{DS} = 2.50g$

$z/h = 1.0$

$I_p = 1.5$

Model Line	Model	P/N	Dimension (in)			Weight (lb)	Type	Notes	UUT
			Depth	Width	Height				
ABB	T6 630A (800 AF)	T6*Q630TW	4.07	8.26	10.55	20.9	TM		
	T6 800A (800 AF)	T6*Q800TW	4.07	8.26	10.55	20.9	TM	UUT: T6NQ800TW	2 (Qt. 1)
<i>* Indicates interrupt capacity of T6 breaker, N = 35kA@480V; S = 50kA@480V; H = 65kA@480V</i>									

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Table 4

Special Seismic Certification Certified Product Matrix

TWEI Project No.: 2012-0155-CO-001

Manufacturer: Powersmiths International Corp.

Model Line: Power Distribution Unit - PDU

TOUCH SCREEN DISPLAY DETAIL

Certified Product Construction Summary:

Component construction specific to model number listed below.

Certified Options Summary:

With Ethernet port.

Certified Mounting Summary:

Mounted in equipment.

Building Code: CBC 2013

Seismic Certification Limits:

$S_{DS} = 2.50g$

$z/h = 1.0$

$I_p = 1.5$

Model Line	Model	Dimension (in)			Weight (lb)	Notes	UUT
		Depth	Width	Height			
Schneider	XBT GT1105	1.61	5.12	4.09	1.0		1
	XBT GT1335	1.61	5.12	4.09	1.0		
	XBT GT2120	2.34	6.60	5.32	2.2		
	XBT GT2220	2.34	6.60	5.32	2.2		2

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Table 5

Special Seismic Certification Certified Product Matrix

TWEI Project No.: 2012-0155-CO-001

Manufacturer: Powersmiths International Corp.

Model Line: Power Distribution Unit - PDU **TRANSFORMER DETAIL**

Certified Product Construction Summary:
Dry-Type transformers with copper windings.

Certified Options Summary:
Product lines: T-1000, and K-StarD, E-Saver.

Certified Mounting Summary:
Mounted in Equipment.

Building Code: CBC 2013 **Seismic Certification Limits:** $S_{DS} = 2.50g$ $z/h = 1.0$ $I_p = 1.5$

Model Line	Model	Dimension (in)			Weight (lb)	Notes	UUT
		Depth	Width	Height			
T1000-**	50 kVA	12.0	22.0	18.0	600	<i>UUT: T1000-C3 tested</i>	INTERPOLATED
	75 kVA	12.0	23.0	22.0	675		
	112.5 kVA	15.0	27.0	23.0	1025		
	125 kVA	16.0	28.0	23.0	1125		
	150 kVA	17.0	30.0	24.0	1325		
	225 kVA	17.0	32.0	29.0	1850		
	300 kVA	20.0	34.0	30.0	2000		
	375 kVA	21.5	34.0	33.0	2125		
	400 kVA	22.0	34.0	33.0	2325		
	500 kVA	25.0	36.0	36.0	2500		
K-Star-D-**	750 kVA	27.0	40.0	36.0	3450		
	50 kVA	12.0	22.0	18.0	600		
	75 kVA	12.0	23.0	22.0	675		
	112.5 kVA	15.0	27.0	23.0	1025		
	125 kVA	16.0	28.0	23.0	1125		
	150 kVA	17.0	30.0	24.0	1325		
	225 kVA	17.0	32.0	29.0	1850		
	300 kVA	20.0	34.0	30.0	2000		
	375 kVA	21.5	34.0	33.0	2125		
	400 kVA	22.0	34.0	33.0	2325		
500 kVA	25.0	36.0	36.0	2500			
750 kVA	27.0	40.0	36.0	3450			

** Efficiency classification – See model number nomenclature.

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Table 5

**Special Seismic Certification
Certified Product Matrix**

TWEI Project No.: 2012-0155-CO-001

Manufacturer: Powersmiths International Corp.

Model Line: Power Distribution Unit - PDU **TRANSFORMER DETAIL**

Certified Product Construction Summary:
Dry-Type transformers with copper windings.

Certified Options Summary:
Product lines: T-1000, and K-StarD, E-Saver.

Certified Mounting Summary:
Mounted in Equipment.

Building Code: CBC 2013 **Seismic Certification Limits:** $S_{DS} = 2.50g$ $z/h = 1.0$ $I_p = 1.5$

Model Line	Model	Dimension (in)			Weight (lb)	Notes	UUT
		Depth	Width	Height			
E-Saver-**L	50 kVA	11.0	22.0	18.0	550		INTERPOLATED
	75 kVA	12.0	22.0	19.5	625		
	112.5 kVA	15.0	24.0	23.0	950		
	125 kVA	15.0	27.0	23.0	1050		
	150 kVA	16.0	27.0	24.0	1300		
	225 kVA	17.0	30.0	27.5	1715		
	300 kVA	19.0	31.5	30.0	2025		
	375 kVA	20.0	33.0	33.0	2050		
	400 kVA	21.0	33.0	32.0	2200		
500 kVA	23.0	34.5	35.0	2275			
E-Saver-**H	750 kVA	27.0	39.0	36.0	3325		
	50 kVA	12.0	22.0	18.0	575		
	75 kVA	12.0	23.0	22.0	650		
	112.5 kVA	15.0	27.0	23.0	1000		
	125 kVA	16.0	28.0	23.0	1100		
	150 kVA	17.0	30.0	24.0	1375		
	225 kVA	17.0	32.0	29.0	1900		
	300 kVA	20.0	34.0	30.0	2150		
	375 kVA	21.5	34.0	33.0	2325		
	400 kVA	22.0	34.0	33.0	2525		
	500 kVA	25.0	36.0	36.0	2625	UUT: E-Saver-C3H tested	2
750 kVA	27.0	40.0	36.0	3450			

** Efficiency classification – See model number nomenclature.

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Table 6

**Special Seismic Certification
Certified Product Matrix**

TWEI Project No.: 2012-0155-CO-001

Manufacturer: Powersmiths International Corp.

Model Line: Power Distribution Unit - PDU **MISCELLANEOUS DETAIL**

Certified Product Construction Summary:
Component construction specific to model number listed below.

Certified Options Summary:
Powersmiths Cyberhawk-300: Single model, dual rated 3 Port, 600/480V. **Cyberhawk EX0:** Power Meter **Powersmiths Rotatable IR:** window type reinforced, Window diameter 3 inches, Window angle 40°. **Schneider/Veris Data Board:** Certifying three different options, A, B and C only difference is software. **Schneider/Veris Data Board:** ¾" option, 21 CTs. **Moxa (Web Server):** WEB option **Zone Defender Pro:** entire range of 120/240 working voltage SPD's certified. **Rex Control Transformer:** 75 VA 600V Primary 208V Secondary option certified. **Ferraz Shawmut Fuse Holder:** USM3 Model Number

Certified Mounting Summary:
Mounted in Equipment.

Building Code: CBC 2013 **Seismic Certification Limits:** $S_{DS} = 2.50g$ $z/h = 1.0$ $I_p = 1.5$

Model Line	Model	Dimension (in)			Weight (lb)	Notes	UUT
		Depth	Width	Height			
Powersmiths	Cyberhawk – 300 P/N 202-000846-103	2.25	9.0	15.0	8.3	UUT: 3 Port, 600/480V tested	2
	Cyberhawk – EX0 P/N 202-003630-111	3.25	3.25	7.0	2.0	UUT: EX0 tested, Power Meter	1
	Rotatable IR	14.0	7.5	14.0	8.0	UUT: 3" window, angle 40 deg.	2
Schneider/Veris (OEM)	BCPMA084S (Data Board)	8.9	1.7	5.8	1.0		
	BCPMB084S (Data Board)	8.9	1.7	5.8	1.0		
	BCPMC084S (Data Board)	8.9	1.7	5.8	1.0		1
	BCPM (CT Strip)	1.3	2.0	32.0	5.0	2 strips of 21 CTs, ¾" option	1
Schneider/Veris Data Board: Certifying three different options, A, B and C only difference is software							
Moxa (WEB Server)	UC-7112-LX	3.0	1.0	4.4	1.0		2 (Qt.2)
Zone Defender PRO / Surge Protection Device	80kA ZD16101	5.1	3.0	9.3	6.5		
	100kA ZD16201	5.1	3.0	9.3	6.5		1
	120kA ZD16301	5.1	3.0	9.3	6.5		
	160kA ZD16401	5.1	3.0	9.3	6.5		2
	200kA ZD16501	5.1	3.0	9.3	6.5		

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Certified Mounting Summary:
Mounted in Equipment.

Building Code: CBC 2013 **Seismic Certification Limits:** $S_{DS} = 2.50g$ $z/h = 1.0$ $I_p = 1.5$

Model Line	Model	Dimension (in)			Weight (lb)	Notes	UUT
		Depth	Width	Height			
Rex	CS75JB Control Transformer	3.0	3.0	4.0	3.0		2 (Qt.2)
Ferraz Shawmut	USM3 Fuse Holder	2.3	2.1	3.1	0.2		2 (Qt.2)

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