

	OFFICE USE ONLY				
APPLICATION FOR OSHPD SPECIAL SEISMIC CERTIFICATION PREAPPROVAL (OSP)	APPLICATION #:	OSP - 0377 - 10			
OSHPD Special Seismic Certification Preapproval (OSP)					
Type: 🛛 New 🗌 Renewal					
Manufacturer Information					
Manufacturer: Eltek					
Manufacturer's Technical Representative: Larry Lutz					
Mailing Address: 2925 E. Plano Parkway, Plano, TX 75074					
Telephone: (469) 330-9100 Email: Larry.L	utz@eltek.com				
Product Information					
Product Name: IBB-250WM and WME Battery Charger System					
Product Type: _Battery charger					
Product Model Number: <u>IBB-250WM and IBB-250WME (see Table 1 fo</u> (List all unique product identification numbers and/or part numbers) General Description: <u>Wall mounted battery charger system with 24VD0</u>	·	rs)			
Mounting Description: Rigid wall mounted					
Applicant Information					
Applicant Company Name: Tobolski Watkins Engineering, Inc.					
Contact Person: Matthew Tobolski, PhD, SE					
Mailing Address: 9246 Lightwave Ave, Suite 140, San Diego, CA 9212	3				
Telephone: (858) 381-5843 Email: mtobo	lski@tobolskiwatkins.co	<u>m</u>			
I hereby agree to reimburse the Office of Statewide Health Pl accordance with the California Administrative Code, 2013.	anning and Develop	ment review fees in			
Signature of Applicant:	Date	e: <u>12/24/13</u>			
Title: President and CEO Company Name: Tobols	ki Watkins Engineering,	Inc.			
•	All A	osDpd			
"Access to Safe. Quality Healthcare Environments that Meet California's Diverse and Dvnamic Needs" STATE OF CALIFORNIA – HEALTH AND HUMAN SERVICES AGENCY OSH-FD-759 (REV 1/24/13)	WWW	Page 1 of 3			

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: Matthew Tobolski, PhD, SE California License Number: S 5648									
Mailing Address: 9246 Lightwave Avenue, Suite 140, San Diego, CA 92123									
Telephone: (858) 381-5843 Email: <u>mtobolski@tobolskiwatkins.com</u>									
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: National Technical Systems (NTS)									
Contact Name: Don Bennett									
Mailing Address:1536 E. Valencia, Fullerton, CA 92831									

Email: Don.Bennett@nts.com

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Telephone: (714) 879-6110

OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT FACILITIES DEVELOPMENT DIVISION
Design in accordance with ASCE 7-10 Chapter 13: Xes No
Design Basis of Equipment or Components $(F_p/W_p) = 1.88$
S_{DS} (Design spectral response acceleration at short period, g) = 2.50
a _p (In-structure equipment or component amplification factor) = <u>2.5</u>
R_p (Equipment or component response modification factor) = <u>6.0</u>
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) = <u>See attachments</u>
Overall dimensions and weight (or range thereof) = <u>See attachments</u>
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): Attachments
OSHPD Approval (For Office Use Only) – Approval Expires on December 31, 2019
Signature: Date: 3/13/14
Print Name: M. R. Karim Title: SHFR
Special Seismic Certification Valid Up to : $S_{DS}(g) = 2.5$ $z/h = 1.0$
Condition of Approval (if applicable):

STATE OF CALIFORNIA - HEALTH AND HUMAN SERVICES AGENCY

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Table 1

Special Seismic Certification Certified Product Matrix

ENGINEERING

TWEI Project No.: 2013-0737-CO-001

Manufacturer: Eltek, Inc.

IBB-250 WM and WME Battery Charger System Model Line:

Certified Product Construction Summary:

Cabinet is constructed of painted galvanized steel. NEMA 1 rated.

Certified Options Summary:

Output voltage: shown in model number

Input voltage: 1	h-120/208/2/0V	34-208/2401/1	nhase shown in	model number)
input voitage. It	p-120/200/240v,	5Ψ-206/2401 (phase shown in	inouernumber)

Internal component options are shown in Table 2

Certified Mounting Summary:

Rigid wall. SEOR to design anchorage.

Building Code	: CBC 2013	Seismic Certific			s = 2.50g	z/h = 1.0 <i>I</i> _p =	1.5
Model Line	Model	Depth	imension (i Width	n) Height	Weight (lb)	Notes	UUT
	301300*: 1¢/48\	/					1
	325058*: 1¢/48\	/					
	301301*: 1¢/24\	/					
	325059*: 1¢/24\	/					
	301302*: 1ф/140	V					
	310118*: 1ф/140	V					
IBB-250WM	311912*: 1ф/140	V 18.0	16.8	22.6	151		
	301303*: 3¢/48\	<i>/</i>					
	325060*: 3¢/48\	<i>/</i>					
	301304*: 3¢/24\	<i>/</i>					
	325061*: 3¢/24\	/					
	301305*: 3ф/140	V					
	320361*: 3ф/140	V					
IBB-250WME	301306*: 1ф/140	V 18.0	16.8	34.8	180		
IBB-250WIVIE	301307*: 3ф/140	V 18.0	10.8	34.8	180		2
Model may contain a	additional nomenclat	ure to reflect so	oftware cor	ifigurations			

858-381-5843 - INFO@TOBOLSKIWATKINS.COM TOBOLSKI WATKINS ENGINEERING, INC.



Table 2

Special Seismic Certification Certified Product Matrix

TWEI Project No.: 2013-0737-CO-001

Manufacturer: Eltek, Inc.

Model Line:

IBB-250 WM and WME Battery Charger System – Subcomponents

Certified Product Construction Summary:

N/A

Certified Options Summary:

Specific internal component options are listed herein.

Certified Mounting Summary:

Subcomponents are installed within charger cabinet.

Building Code:	CBC 2013	Seismic	Certifi	cation Limi	ts: SD	s = 2.50g	z/h = 1.0 I _p = 2	1.5
Model Line	Model		Dimension (in)			Weight	Notes	UUT
Widder Eine	Model	D	epth	Width	Height	(lb)	Notes	001
	EGB3030FFG	i						
	EGB3050FFG	i						
	EGB2050FFG	i i						
	EGB2080FFG							
Eaton Corporation Circuit Breakers	EGB3100FFG							
	EGB2100FFG							1,1
	JGE2150FAG							
	JGE3175FAG							2
	JGE2250FAG							2
	242100.500						Smartpack2 Master	1,2
	242100.501						Smartpack2 Basic	1
Eltek, Inc. Smartpack2	242100.601	601					Smartpack2 Basic Industrial	2
I/O Monitor2	242100.502						I/O monitor	1,2
., ee	242100.300						Battery monitor	1,2
	242100.301						Load monitor	1,2
	241115.205B	5						
	241115.205							
	241115.250							
Eltek, Inc. Flatpack2	241115.705B	5						
Rectifiers	241115.705							1
neotinero	241115.805B							
	241115.805							
	241119.805							2



UUT – 1

UNIT UNDER TEST (UUT) Summary Sheet

TWEI Project No.: 2013-0737-CO-001

Manufacturer: Eltek, Inc.

Model Line: IBB-250 WM and WME Battery Charger System

301300 - IBB-250WM Model Number:

Product Construction Summary:

Cabinet is constructed of painted galvanized steel. NEMA 1 rated.

Options/Subcomponent Summary:

14-48V output; 14-120/208/240V input; (2) Eaton Corporation Breakers: EBG2100FFG; (1) Eltek Smartpack2 Master (242100.500); (1) Eltek Smartpack2 Basic: 242100.501; (1) Eltek Smartpack2 I/O Monitor: 242100.502; (1) Eltek Smarkpack2 Battery Monitor: 242100.300; (1) Eltek Smartpack2 Load Monitor: 242100.301; (6) Eltek Rectifiers: 241115.705

UUT Properties										
Weight Dimensions (in) Lowest Natural Frequency (Hz)										
(lb)	Depth	epth Width Height Front-Back Side-Side V						/ertical		
110	18.0	18.0 16.8			1	N/A	N/A		N/A	
	UUT Highest Passed Seismic Run Information									
Building Code	Test Crit	eria	SDS	z/h	lp	A _{FLX-H}	Arig-h	A _{FLX-V}	A _{RIG-V}	
CBC 2013	ICC-ES AC	156	2.50g	1.0	1.5	4.00g	3.00g	1.67g	0.67g	

Test Mounting Details:



Mounted to test fixture using (4) 3/8" x 1" long lag bolts. Test fixture mounted to table using (16) ½" Grade 8 bolts. Unit maintained structural integrity and remained functional per manufacturer requirement. Contents were included in testing per operating conditions.

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UUT – 2

UNIT UNDER TEST (UUT) Summary Sheet

TWEI Project No.: 2013-0737-CO-001

Manufacturer: Eltek, Inc.

Model Line: IBB-250 WM and WME Battery Charger System

301307 - IBB-250WME Model Number:

Product Construction Summary:

Cabinet is constructed of painted galvanized steel. NEMA 1 rated.

Options/Subcomponent Summary:

14-140V output; 34-208/240V input; (2) Eaton Corporation Breakers: JGE3175FAG and JGE2250FAG; (1) Eltek Smartpack2 Master: 242100.500; (1) Eltek Smartpack2 Basic Industrial: 242100.601; (1) Eltek Smartpack2 I/O Monitor: 242100.502; (1) Eltek Smarkpack2 Battery Monitor: 242100.300; (1) Eltek Smarkpack2 Load Monitor: 242100.301; (10) Eltek Rectifiers: 241119.805

UUT Properties										
Weight Dimensions (in) Lowest Natural Frequency (Hz)										
(lb)	Depth	pth Width Height Front-Back Side-Side \						/ertical		
180	18.0	16	.8	34.8	1	N/A	N/A		N/A	
	UUT Highest Passed Seismic Run Information									
Building Code	Test Crit	eria	SDS	z/h	lp	A _{FLX-H}	Arig-h	A _{FLX-V}	A _{RIG-V}	
CBC 2013	ICC-ES AC	156	2.50g	1.0	1.5	4.00g	3.00g	1.67g	0.67g	

Test Mounting Details:



Mounted to test fixture using (6) 3/8" x 1" long lag bolts. Test fixture mounted to table using (16) ½" Grade 8 bolts. Unit maintained structural integrity and remained functional per manufacturer requirement. Contents were included in testing per operating conditions.

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