

DEPARTMENT OF HEALTH CARE ACCESS AND INFORMATION FACILITIES DEVELOPMENT DIVISION

APPLICATION FOR HCAI SPECIAL SEISMIC	OFFICE USE ONLY
CERTIFICATION PREAPPROVAL (OSP)	APPLICATION #: OSP-0701
HCAI Special Seismic Certification Preapproval (OSP)	
Type: New X Renewal	
Manufacturer Information	
Manufacturer: Mitsubishi Electric Power Products, Inc	
Manufacturer's Technical Representative: Robert Durbin	
Mailing Address: 547 Keystone Dr., Suite 300, Warrendale, PA 15086	
Telephone: (724) 778-5217 Email: robert.durbin@mep	pi.com
FORCODECON	·
Product Information	0,
Product Name: UPS and Batteries	1 A
Product Type: UPS	120
Product Model Number: 1100B	m
General Description: 10kVA - 80kVA Uninterruptible Power Supplies rim	
Mounting Description: Rigid, Flo <mark>or Mounted</mark>	
Tested Seismic Enhancements: None DATE: 08/01/2022	6
	0
Applicant Information	4. V
Applicant Company Name: TRU Compliance, by Structural Integrity Associates	, Inc.
Contact Person: Galen Reid	
Mailing Address: 233 SW Wilson Ave Suite 101, Bend, OR 97702	
Telephone: (541) 604-7225 Email: greid@structint.com	1

Title: Director, TRU Compliance

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

STATE OF CALIFORNIA - HEALTH AND HUMAN SERVICES AGENCY

OPAA-0701

HCAi



DEPARTMENT OF HEALTH CARE ACCESS AND INFORMATION FACILITIES DEVELOPMENT DIVISION

California Licensed Structural Engineer Responsible for the Engineering and Test Report(s)
Company Name: STRUCTURAL INTEGRITY ASSOCIATES, INC.
Name: Andrew Coughlin California License Number: S6082
Mailing Address: 5215 Hellyer Ave, Suite 101, San Jose, CA 95138-1025
Telephone: (415) 635-8461 Email: acoughlin@structint.com
Certification Method
GR-63-Core X ICC-ES AC156 IEEE 344 IEEE 693 NEBS 3
Other (Please Specify):
FOR CODE CO
Testing Laboratory
Company Name: CLARK TESTING LABORATORY, INC.
Contact Person: Zachary E. Fischer
Mailing Address: 1801 Route 51 South, Jefferson Hills PA 15025
Telephone: (412) 387-1001 Email: zfischer@clarktesting.com
C DATE: 08/01/2022
DATE: 08/01/2022
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BUILDING

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Seismic Parameters			
Design Basis of Equipment or Components	(Fp/Wp) = 1.08 (z/h = 1); 0.68 (z/h	= 0)	
SDS (Design spectral response accel	eration at short period, g) = 1.5		
ap (Amplification factor) =	1.0		
Rp (Response modification factor) =	2.5		
$Ω_0$ (System overstrength factor) =	2.0		
Ip (Importance factor) =	1.5		
z/h (Height ratio factor) =	1 and 0		
Natural frequencies (Hz) =	See Attachment		
Overall dimensions and weight =	See Attachment		
	CD FORMAN		
		4	
HCAI Approval (For Office Use Only) -	Approval Expires on 08/01/2028	12	
Date: 8/1/2022	OSP-0701	F	
Name: Mohammad Karim	DV: Mahammad Karim	Title:	Supervisor, Health Facilities
Special Seismic Certification Valid Up to: Si	ps(g) = 1.5	<mark>z/h =</mark>	See Above
Condition of Approval (if applicable):	DATF: 08/01/2022	6	
		102	
	PRVIA BUILDING COD		

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STATE OF CALIFORNIA – HEALTH AND HUMAN SERVICES AGENCY

OPAA-0701

SPECIAL SEISMIC CERTIFICATION CERTIFIED COMPONENT MATRIX

2100153-CR-001-R1



Manufacturer:	Mitsubishi Electric Power Prod	ucts, Inc.				TADLE	4			
Model Line:	Mitsubisin Electric Power Products, mc. TABLE 1 1100B UPS TABLE 1									
Certified Product Co	onstruction Summary:									
Painted Carbon Steel	Enclosure									
Certified Options Su Input/Output VAC: 48	=									
<i>Mounting Configura</i> Base mounted - rigid	tion:	RCO	DEC							
-	onfiguration must be of similar configurat	tion and equiva	alent strengt	h and stiffne	ss to those te	sted.				
Building Code: CBC 2	N	Certificati	VANEXX	S DS=	1.5 g Z/	/h=1.0	1.5			
Model Line	Model	OSPI	nensions	777	Weight	Notes	UUT			
Model Line	Moder	Depth	Width	Height	(lb)	Notes	001			
	M1100 <mark>B-A-</mark> 10-208-208	27.0	32.0	68.0	538		2			
	11B-AE0010BA26	27.0	32.0	68.0	538	Same as -10-208-208 Factory Installed Label	Interp.			
	11B-AE0010B	E 08/0 27.0)1/202	68.0	538	Same as -10-208-208 Field Installed Label	Interp.			
	M1100B-A-10-208-D01	27.0	32.0	68.0	498		Interp.			
	11B-AE0010BD03	27.0	32.0	68.0	498	Same as -10-208-D01 Factory Installed Label	Interp.			
	11B-AE0010B	B (27.0	DI32.0	68.0	498	Same as -10-208-D01 Field Installed Label	Interp.			
	M1100B-A-20-208-208	27.0	32.0	68.0	542		Interp.			
1100B	11B-AE0020BA26	27.0	32.0	68.0	542	Same as -20-208-208 Factory Installed Label	Interp.			
	11B-AE0020B	27.0	32.0	68.0	542	Same as -20-208-208 Field Installed Label	Interp.			
	M1100B-A-20-208-D01	27.0	32.0	68.0	542		Interp.			
	11B-AE0020BD03	27.0	32.0	68.0	542	Same as -20-208-D01 Factory Installed Label	Interp.			
	11B-AE0020BD01	27.0	32.0	68.0	542	Same as -20-208-D01 Field Installed Label	Interp.			
	M1100B-A-30-208-208	27.0	32.0	68.0	586		Interp.			
	11B-AE0030BA26	27.0	32.0	68.0	586	Same as -30-208-208 Factory Installed Label	Interp.			
	11B-AE0030B	27.0	32.0	68.0	586	Same as -30-208-208 Field Installed Label	Interp.			

TRU Compliance, by Structural Integrity Associates, Inc.

844-TRU-0200 | info@trucompliance.com

SPECIAL SEISMIC CERTIFICATION CERTIFIED COMPONENT MATRIX

2100153-CR-001-R1



Manufacturer:	Mitsubishi Electric Power Prod	ucts, Inc.				TADLE	4
Model Line:	1100B UPS	,				TABLE	1
Certified Product Co	onstruction Summary:						
Painted Carbon Steel	Enclosure						
<i>Certified Options Su</i> Input/Output VAC: 48							
<i>Mounting Configura</i> Base mounted - rigid Note: Installed mounting c	tion: onfiguration must be of similar configurat	tion and equiva	DE C	h and stiffne	ss to those te	sted.	
Building Code: CBC .	2019 Seismic	Certificati	ion Limits		1.5 g Z/		1.5
Model Line	Model		nensions		Weight	Notes	υυτ
		Depth	Width	Height	(lb)		
	M1100B-A-30-208-D01	27.0 Vohamn	32.0	68.0	586		Interp.
	11B-AE0030BD03	27.0	32.0	68.0	586	Same as -30-208-D01 Factory Installed Label	Interp.
	11B-AE0030BD01	27.0)1/202 32.0	68.0	586	Same as -30-208-D01 Field Installed Label	Interp.
	M1100B-A-40-208-208	27.0	32.0	68.0	631		Interp.
	11B-AE0040BA26	27.0	32.0	68.0	631	Same as -40-208-208 Factory Installed Label	Interp.
	11B-AE0040B	B 47.0	0132.0	68.0	631	Same as -40-208-208 Field Installed Label	Interp.
	M1100B-A-40-208-D01	27.0	32.0	68.0	631		Interp.
1100B	11B-AE0040BD03	27.0	32.0	68.0	631	Same as -40-208-D01 Factory Installed Label	Interp.
	11B-AE0040BD01	27.0	32.0	68.0	631	Same as -40-208-D01 Field Installed Label	Interp.
	M1100B-A-50-208-208	27.0	32.0	68.0	675		Interp.
	11B-AE0050BA26	27.0	32.0	68.0	675	Same as -50-208-208 Factory Installed Label	Interp.
	11B-AE0050B	27.0	32.0	68.0	675	Same as -50-208-208 Field Installed Label	Interp.
	M1100B-A-50-208-D01	27.0	32.0	68.0	675		Interp.
	11B-AE0050BD03	27.0	32.0	68.0	675	Same as -50-208-D01 Factory Installed Label	Interp.
	11B-AE0050BD01	27.0	32.0	68.0	675	Same as -50-208-D01 Field Installed Label	Interp.

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SPECIAL SEISMIC CERTIFICATION CERTIFIED COMPONENT MATRIX

2100153-CR-001-R1



Manufacturer:	Mitsubishi Electric Power Prod	lucts, Inc.					1				
Model Line:	1100B UPS IABLE 1										
Certified Product Co	onstruction Summary:					•					
Painted Carbon Stee	l Enclosure										
Certified Options Su											
Input/Output VAC: 48											
Mounting Configura		RCO	DEC								
Base mounted - rigid				012.							
Note: Installed mounting o	configuration must be of similar configura	tion and equiv	alent strengt								
Building Code: CBC	2019 Seismi	c Certificati	on Limits		1.5 g z/		1.5				
	II.		nensions		Weight						
Model Line	Model	Depth	Width	Height	(lb)	Notes	UUT				
	M110 <mark>0B-A-6</mark> 0-208-208	27.0	32.0	68.0	719		Interp.				
	11B-AE0060BA26	27.0	32.0	68.0	719	Same as -60-208-208 Factory Installed Label	Interp.				
	11B-AE0060B DAT	E: 08/0)1/202 32.0	68.0	719	Same as -60-208-208	Interp.				
			ANN AND AND AND AND AND AND AND AND AND		0	Field Installed Label					
	M1100B-A-60-208-D01	27.0	32.0	68.0	719		Interp.				
	11B-AE0060BD03	27.0	32.0	68.0	719	Same as -60-208-D01 Factory Installed Label	Interp.				
	A	RITIE	TNG	0		Same as -60-208-D01					
11005	11B-AE0060BD01	27.0	132.0	68.0	719	Field Installed Label	Interp.				
1100B	M1100B-A-70-208-208	27.0	32.0	68.0	763		Interp.				
	11B-AE0070BA26	27.0	32.0	68.0	763	Same as -70-208-208 Factory Installed Label	Interp.				
	11B-AE0070B	27.0	32.0	68.0	763	Same as -70-208-208 Field Installed Label	Interp.				
	M1100B-A-80-208-208	27.0	32.0	68.0	836		1				
	11B-AE0080BA26	27.0	32.0	68.0	836	Same as -80-208-208 Factory Installed Label	Interp.				
	11B-AE0080B	27.0	32.0	68.0	836	Same as -80-208-208 Field Installed Label	Interp.				
							+				
				1							

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UNIT UNDER TEST (UUT) SUMMARY SHEET



2100153-CR-001-R1

UUT	Unit Description	Report Number	Testing Lab	Year Tested	ISO 17025 Accredited?	S _{DS}	z/h	I,
1	M1100B-A-80-208-208	JID 21-00274 Rev.0	Clark Testing	2021	YES	1.5	1	1.
2	M1100B-A-10-208-208	JID 21-00274 Rev.0	Clark Testing	2021	YES	1.5	1	1.
		FO	RCODEC					
		ENED	HCAi	N S	T			
	/	E Contraction	OSP-0701		1CFF			
		O BY:M	ohammad Ka	rim	0			
			: 08/01/202	2	19			
		Co.			N.			
		INTA E	BUILDING	CON				
tes:								

UNIT UNDER TEST (UUT) SUMMARY SHEET

2100153-CR-001-R1



Manufacturer:		Electric Power Prod	lucts, Inc.					1	JUT	1
Model Line:	1100B UPS	5						, i		
Model Number:		80-208-208			Serial N	umber:	18-7M86	057-03		
	iction Summary:	:								
Painted Carbon S	teel Enclosure									
Options/Subcon	nponent Summa	ry:								
	are identified by r									
		EC	RCO	DEC						
		EDFC			Ms,					
		L.S.	UUT Pr	operties						
Weight		Dimension (in)	mAMerAAAreed			Lowes	st Natural	Frequen	cy (Hz)	
(lb)	Depth	Width	OSHe	ight 01	Front	-Back	Side	-Side	Ver	tical
836	27.0	32.0		8.0		.6	8	.6	26	5.8
		UUT Highest								
Buildir	ng Code	Test Crite	ria	S _{DS} (g)	z/h	I _P	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (
CBC 2	2019	ICC-ES AC	156 08/	$01/202 \\ 1.5$	$2^{1.0}_{0.0}$	1.50	2.40	1.80	1.00	0.40
Test Mounting D			39999999	1.5	0.0	5				
		0			4	. 61		-		
	K	THE	.		0	H	1	1		
	11	1 1 1	BETH	DING			11	12		
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UUT1 was base mounted - rigid using four (4) 1/2" - 13 SAE grade 5 hex bolts torqued to 50ft. - lbs. Unit maintained structural integrity and remained functional per manufactures requirements after shake table test. Contents were included in testing per operating conditions.

OPAA-0701

UNIT UNDER TEST (UUT) SUMMARY SHEET

2100153-CR-001-R1



	Mitsubisł	hi Electr	ic Power Proc	ducts, Inc.					.		`
Model Line:	1100B UF	S							ļ	JUT	2
Model Number:	M1100B-/	A-10-20	8-208			Serial N	umber:	20-7M86	424-01		
Product Constru		<i>y:</i>									
Painted Carbon S	iteel Enclosure										
Options/Subcon	nnonent Summ	narv:									
Subcomponents			l number.								
·	·	-									
				RCO	DEC						
			ED FO			Mp,					
			AL.		operties						
Weight		Di	mension (in)				Lowes	t Natural	Frequen	cy (Hz)	
(lb)	Depth	4	Width	OSHe	ight 01	Front	-Back	Side	-Side	Ver	tical
538	27.0		32.0	68	3.0	12	2.0	10).9	28	3.2
			UUT Highes		eismic Ru	n Informa	ation		T		
Buildir	ng Code		Test Crite	eria	S _{DS} (g)	z/h	I _P	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (
					1.5	1.0					
CBC 2	2019		ICC-ES AC	156 08/			1.50	2.40	1.80	1.00	0.40
		G	ICC-ES AC	:156 08/	1.5	2 0.0	1.50	2.40	1.80	1.00	0.40
		CR	ICC-ES AC				1.50	2.40	1.80	1.00	0.40
CBC 2 Test Mounting D		CRU	ICC-ES AC				1.50	2.40	1.80	1.00	0.40
		CRA	ICC-ES AC				1.50	2.40	1.80	1.00	0.40
		CRY	ICC-ES AC				1.50	2.40	1.80	1.00	0.40
			ICC-ES AC				1.50	2.40	1.80	1.00	0.40
			ICC-ES AC				1.50	2.40	1.80	1.00	0.40
			ICC-ES AC				1.50	2.40	1.80	1.00	0.40
			ICC-ES AC				1.50	2.40	1.80	1.00	0.40
			ICC-ES AC				1.50	2.40	1.80	1.00	0.40
			ICC-ES AC				1.50	2.40	1.80	1.00	0.40
			ICC-ES AC				1.50	2.40	1.80	1.00	0.40
			ICC-ES AC				1.50	2.40	1.80	1.00	0.40
			ICC-ES AC				1.50	2.40	1.80	1.00	0.40
			ICC-ES AC				1.50	2.40	1.80	1.00	0.40

UUT2 was base mounted - rigid using four (4) 1/2" - 13 SAE grade 5 hex bolts torqued to 50ft. - lbs. Unit maintained structural integrity and remained functional per manufactures requirements after shake table test. Contents were included in testing per operating conditions.

OPAA-0701