

DEPARTMENT OF HEALTH CARE ACCESS AND INFORMATION FACILITIES DEVELOPMENT DIVISION

APPI ICATION F	OR HCAI SPECIAL SEISMIC	OFFICE USE ONLY
	PREAPPROVAL (OSP)	APPLICATION #: OSP-0101
HCAI Special Seismie	c Certification Preapproval (OSP)	
Type: New X	Renewal	
Manufacturer Informa	ation	
Manufacturer: VERTI	V	
Manufacturer's Technica	I Representative: Julian Freeman	
Mailing Address: 975 Pit	ttsburgh Drive, Delaware, OH 43015	
Telephone: (740) 833-8	910 Email: Julian,Freeman@v	ertiv.com
Product Information	ED	0,
Product Name: UPS and	Batteries	E.
Product Type: UPS	0SP 0101	Z
Product Model Number:	Liebert GTX4 UPS, Liebert GTX4 External Battery Ca MPH2-PDU, Liebert MicroPod	binet, Liebert APS UPS, APS Battery Cabinet,
General Description:	Rack mounted and base mounted UPS, single phase	powe <mark>r.</mark>
	Rack mounted units may only be installed in the same maximum wt. or C.G. as shown on the UUT Sheets.	
Mounting Description:	Rigid, Rigid base mounted and rigid rack mounted	0
Tested Seismic Enhance	ements: Seismic enhancements made to the test up anomalies during the tests shall be incorpo	hits and/or modifications required to address rated into the production units.
Applicant Information	n A BUILDING	1
Applicant Company Nam	ne: TRU Compliance, by Structural Integrity Associate	S
Contact Person: Daniel	Zentner	
Mailing Address: 233 SV	N Wilson Ave, Suite 101, Bend, OR 97702	
Telephone: (541) 292-5		.com

Title: Program Manager



"A healthier California where all receive equitable, affordable, and quality health care"



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: 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 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: Devon Lohr
Mailing Address: 1801 Route 51, Jefferson Hills PA 15025
Telephone: (412) 387-1001 By Email: dlohr@clarktesting.com
Company Name: QUALTECH/CURTISS WRIGHT/TRENTEC
Contact Person: Jerry Newberry CONTE: 02/13/2024
Mailing Address: 4600 East Tech Drive, Cincinnati OH 45245
Telephone: (513) 528-7900 Email: jnewberry@curtisswright.com
BUILDING



"A healthier California where all receive equitable, affordable, and quality health care" STATE OF CALIFORNIA – HEALTH AND HUMAN SERVICES AGENCY

OSP-0101

All Ju



DEPARTMENT OF HEALTH CARE ACCESS AND INFORMATION FACILITIES DEVELOPMENT DIVISION

Seismic Parameters

Desig	n Basis of Equipment or Components	(Fp/Wp) =	1.44 (SDS = 2.00, z/h =	= 1); 1.13 (S	DS = 2.50, z/h = 0)
	SDS (Design spectral response accele	ration at sho	ort period, g) = $2.00 (z/t)$	n = 1); 2.50 (z/h = 0)
	ap (Amplification factor) =	1			
	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 Attachr	ment		
	Overall dimensions and weight =	See Attachr	ment ODF co		
		JED FO	ONI		
HCAI	Approval (For Office Use Only)	Approval E	Expires on 02/13/203	0 7	
Date:	2/13/2024		DSP-0101	G	
Name	: Timothy Piland			Title:	Senior Structural Engineer
Specia	al Seismic Certification Valid Up to: SE	os (g) = See	e Above	z/h =	See Above
Condi		annot excee			e model rack, as tested, n on the UUT Sheets. See





"A healthier California where all receive equitable, affordable, and quality health care" STATE OF CALIFORNIA – HEALTH AND HUMAN SERVICES AGENCY

OSP-0101

Alla

SPECIAL SEISMIC CERTIFICATION CERTIFIED COMPONENT MATRIX

1900374-CR-001-R2



Manufacturer:	Vertiv Corporation						T A	
Model Line:	Liebert GXT4 and APS	Single Phas	se UPS					BLE 1
Certified Product Cons	truction Summary:							
Carbon Steel Housing								
Certified Options Sumi	mary:							
Mounting Configuratio					:	····)		
Base mounted - rigid in Note: Installed mounting mu								
Note: Installed mounting mu	ist be of similar configuration	i and equivate	ent strength a	and summess	A		h=1.0	
Building Code: CBC 202	22	Seismic C	ertificatio	n Limits:		• ·	1-1.0 h=0.0	<i>I</i> _P = 1.5
		Dir	nensions	(in)	Weight	2.0 g 2/1		
Model Line	Model ^{1,2,3}	Depth	Width	Height	(lbs.)	2	Notes	UUT
	GXT4-500RT120	16.2	16.9	3.4	40	Input AC - 1	20 VAC	Extrap
	GXT4-700RT120	R \16.2 in	16.9 P	lar3.4	40	Input AC - 1	20 VAC	Extrap
	GXT4-1000RT120	16.2	16.9	3.4	40	Input AC - 1	20 VAC	Extrap
	GXT4-1 <mark>500RT</mark> 120	19.7	16.9	3.4	55	Input AC - 1	20 VAC	Extrap
	GXT4-2000RT120	19.5	16.9	3.5	59	Input AC - 1	20 VAC	1
	GXT4-3000RT120	23.7	16.9	3.4	71	Input AC - 1	20 VAC	Interp
Liebert GXT4 UPS	GXT4-3000RT208	24.0	16.9	3.5	80	Input AC - 1	15-280 VAC	2
	GXT4-5000RT208	28.0	16.9	6.9	141	Input AC - 1	20/208 VAC	3
	GXT4-6000RT208	26.1	16.9	6.9	132	Input AC - 1	20/208 VAC	Interp
	GXT4-6000RTL630	22.6	16.9	8.5	132	Input AC - 2	208 VAC	Interp
	GXT4-8000RT208	26.5	16.9	10.3	213	Input AC - 1	20/208 VAC	Interp
	GXT4-10000RT208	26.5	17.0	10.5	236	Input AC - 1	20/208 VAC	4
	GXT4-48VBATT	19.5	16.9	3.5	71			5
	GXT4-72VBATT	23.5	16.9	3.5	97			6
Liebert GXT4 External Battery Cabinets	GXT4-144VBATT	26.0	16.9	3.4	106			7
Dattery Cadinets	GXT4-240VBATT	22.6	16.9	6.8	143			Interp
	GXT4-288VBATT	26.1	16.9	6.9	184			8
Liebert APS AS5 Series UPS - 10 Bay	AS5	32.0	17.3	27.5	531			21B
			10.0	2.5	22	1		22
Liebert Rack MPH2	MPHB6224	10.0	19.0	3.5	23			23

Notes:

1. See UUT Summary for center of gravity height limit per component.

2. Maximum center of gravity height of configured rack: 36" for GXT4, MPH, and MP2

3. Maximum center of gravity height of configured rack: 38" for AS5

SPECIAL SEISMIC CERTIFICATION CERTIFIED COMPONENT MATRIX

1900374-CR-001-R2



	Vertiv Corporation					TABI	F 1
	Liebert GXT4 and APS	Single Phas	se UPS				
Certified Product Const	truction Summary:						
Carbon Steel Housing							
Certified Options Sumn	nary:						
Mounting Configuration			·		·		
Base mounted - rigid in Note: Installed mounting mu							
Note: Installed mounting mu	st be of similar configuration)n and equivale	ent strengtin	and summess	A	z/h=1.0	
Building Code: CBC 202	22	Seismic (Certificatio	on Limits:		z/n=1.0 z/h=0.0	I _P = 1.5
		Dir	mensions	(in)	Weight	-	
Model Line	Model ^{1,2,3}	Depth	Width	Height	(lbs.)	Notes	UUT
Libert Rack Mounted	× ///						
MicroPod	MP2 <mark>-115A</mark>	BV · Tin	15.0 nothy P	3.5 Iland	7		28
				Папы			
		ATC	00/11	10004			
		PATE	UZHO	5/2024			
				ANN ANN			
				RRRR			
		5 July					
		AP		NGC			
			UILD	NUC			
		_		ļ			
		_					
		_	<u> </u>	<u> </u>			
			<u> </u>				
			<u> </u>				
				+			
			<u> </u>				
			<u> </u>				
Notes:							
Notes: 1. See UUT Summary fo	er contor of aravity beig	aht limit nor	componer	\ <i>+</i>			
 Maximum contor of a 	• • •		•				

2. Maximum center of gravity height of configured rack: 36" for GXT4, MPH, and MP2

3. Maximum center of gravity height of configured rack: 38" for AS5

SPECIAL SEISMIC CERTIFICATION CERTIFIED COMPONENT MATRIX



Manufacturer:	Vertiv Corporation						•
Model Line:	Liebert GXT4 and APS S	ingle Phas	e UPS			TABLE	2
Certified Product Cons		0					
Carbon Steel Housing							
Certified Options Sumi	-						
Transformer Free Mode	21						
Mounting Configuratio	on:						
	See UUT Summaries for o	directions	on installa	tion)			
-	ist be of similar configuration				to those test	red.	
Building Code: CBC 202		Seismic (ertificatio	n l imits:		2.0 g z/h=1.0	1.5
	L.		<u>1 (</u> WW 4			2.5 g z/h=0.0	
Model Line	Model	0	nensions Width		Weight (lbs.)	Notes	UUT
Liebert APS AS5 Series	<	Depth	Junce	Height	((D3.)	Input AC - 200/208/220/230/240V;	
UPS - 10 Bay	AS5	32.0	17.3 hothy P	27.5 Iland	531	Single Phase Transformer Free	21A
Liebert APS AS6 Series	AS6	33.5	17.3	38.1	838	Input AC - 200/208/220/230/240V;	22
UPS - 16 Bay	A30		02/13	38.1 /2024	030	Single Phase Transformer Free	22
Liebert APS External	EBC	28.0	17.3	38.1	755		20
Battery Cabinet - 16 Bay							
Liebert GXT4 UPS	GXT4-10000RT208-GE	27.5	14.4	21.0	268		29
		VIA	A MANAGER				
		B	JILDI	NG			
						nce by Structural Integrity Asso	• . •

SPECIAL SEISMIC CERTIFICATION CERTIFIED SUBCOMPONENT MATRIX

1900374-CR-001-R2



Manufacturer:	Vertiv Corporation				Table De	scription: Power Distribution Bo			
Model Line:	Liebert GXT4 and AF	S Single Pha	se UPS		Tuble De		JACS	TABL	E 3
Building Code: CBC 20			Seismic Certification Limits: $S_{DS} = 2.0 g z/h = 1.0$ $S_{DS} = 2.5 g z/h = 0.0$ $I_{P} = 1.5$						
Model Line	Model		mension		Weight	DE Material	N	otes	UUT
(Manufacturer)		Depth	Width	Height	(lbs.)	A A A A A A A A A A A A A A A A A A A			
Liebert Power Distrubtion Boxes for 8000VA and 10000VA	PD2-104	1.0	7.4	5.7	6.6	Carbon Steel Casing			4, 21A, 21B, 22
Models (Vertiv)			RFL		DSP-0	101			210, 22
				BY: Ti	mothy	Piland			
			C	DATE	: 02/1	3/2024			
					1				
			0						
				VA E		ING			
					UILL	111			

TRU Compliance, by Structural Integrity Associates, Inc. 844-TRU-0200 | info@trucompliance.com

SPECIAL SEISMIC CERTIFICATION CERTIFIED SUBCOMPONENT MATRIX

1900374-CR-001-R2



Manufacturer: Model Line:	Vertiv Corporation Liebert GXT4 and APS	Single Phas	se UPS		Table De	escription: Internal Batteries		TABL	.E 4
Building Code: CBC 2	022	Seismic Certification Lin				$S_{DS} = 2.0 g z/h = 1.0$ $S_{DS} = 2.5 g z/h = 0.0$	I _P = 1.5		
Model Line	Model		mension		Weight	1	No	tes	UUT
(Manufacturer)		Depth	Width	Height	(lbs.)			120 // / : !)	
	GXT4-5A48BATKIT	9.8	9.7	4.5	20.2	Carbon Steel Casing	GXT4-500/700/1000RT		Extrap
Liebert Internal	GXT4-9A48BATKIT	12.9	8.2	3.5	28.0	Carbon Steel Casing	GXT4-1500/2000RT120,		5
Batteries - GXT4	GXT4-9A72BATKIT	18.0	13.2	8.0	40.8	Carbon Steel Casing	GXT4-3000RT120/RT20		6
(Vertiv)	GXT4-144VBATKIT	19.3	8.1	2.8	0.75.8-(Carbon Steel Casing	GXT4-5000/6000RT208,		7
	GXT4-240VBATKIT	15.4	7.2	4.4	45.4	Carbon Steel Casing	GXT4-6000RTL630; (lea		Interp
	GXT4-288VBATKIT	19.7	8.1	B\5.3 Ti	mðthly	Carbon Steel Casing	GXT4-8000/10000RT20	8; (lead acid)	8
			CR	DATE	: 02/1	3/2024			
				NIA E		INGCOV			
					OILL	11.			

TRU Compliance, by Structural Integrity Associates, Inc. 844-TRU-0200 | info@trucompliance.com

1900374-CR-001-R2



υυτ	Unit Description (mounting)	Report Number (UUT#)	Testing Lab	Year Tested	ISO 17025 Accredited?	S _{DS}	z/h	I _P
1	GXT4-2000RT120 (2-Post Configuration)	Q18601.0, Rev.0 (UUT1)	QualTech-NP by Curtiss-Wright	2018	No ¹	2.33 2.75	1.0 0.0	1.5
2	GXT4-3000RT208 (2-Post Configuration)	Q18601.0, Rev.0 (UUT2)	QualTech-NP by Curtiss-Wright	2018	No ¹	2.33 2.75	1.0 0.0	1.5
3	GXT4-5000RT208 (2-Post Configuration)	Q18601.0, Rev.0 (UUT3)	QualTech-NP by Curtiss-Wright	2018	No ¹	2.33 2.75	1.0 0.0	1.5
4	GXT4-10000RT208 (2-Post Configuration)	Q18601.0, Rev.0 (UUT4)	QualTech-NP by Curtiss-Wright	2018	No ¹	2.33 2.75	1.0 0.0	1.5
5	GXT4-48VBATT (2-Post Configuration)	Q18601.0, Rev.0 (UUT5) imotr	QualTech-NP by Curtiss-Wright	<mark>2</mark> 018	O No ¹	2.33 2.75	1.0 0.0	1.5
6	GXT4-72VBATT (2-Post Configuration)	Q18601.0, Rev.0 (UUT6)	QualTech-NP by Curtiss-Wright	2018	No ¹	2.33 2.75	1.0 0.0	1.5
7	GXT4-144VBATT (2-Post Configuration)	Q18601.0, Rev.0 (UUT7)	QualTech-NP by Curtiss-Wright	2018	No ¹	2.33 2.75	1.0 0.0	1.5
8	GXT4-288VBATT (2-Post Configuration)	Q18601.0, Rev.0 (UUT8)	QualTech-NP by Curtiss-Wright	2018	No ¹	2.33 2.75	1.0 0.0	1.5
9-19			NOT USED					
20	Liebert APS EBC (base mounted - rigid)	Q18601.0, Rev.0 (UUT20b)	QualTech-NP by Curtiss-Wright	2018	No ¹	2.11 3.15	1.0 0.0	1.5
21A	Liebert APS AS5 Series (base mounted - rigid)	Q18601.0, Rev.0 (UUT21)	QualTech-NP by Curtiss-Wright	2018	No ¹	2.43 2.64	1.0 0.0	1.5

1. QualTech-NP by Curtiss Wright was not ISO 17025 accredited at the time of testing but has been reviewed by TRU Compliance and found to meet the requirements for ICC-ES AC156 testing. Review form is on file with TRU Compliance.

1900374-CR-001-R2



ine: Liebert GXT4 and A Unit Description	NPS Single Phase UPS						
(mounting)	Report Number (UUT#)	Testing Lab	Year Tested	ISO 17025 Accredited?	S _{DS}	z/h	I _P
Liebert APS AS5 Series (2-Post Configuration)	Q18601.0, Rev.0 (UUT21)	QualTech-NP by Curtiss-Wright	2018	No ¹	2.09 3.25	1.0 0.0	1.5
AS6A1RCJGNNX223 (base mounted - rigid)	Q18601.0, Rev.0 (UUT22b)	QualTech-NP by Curtiss-Wright	2018	No ¹	2.11 3.15	1.0 0.0	1.5
MPHB6224 (2-Post Configuration)	Q18601.0, Rev.0 (UUT23)	QualTech-NP by Curtiss-Wright	2018	No ¹	2.33 2.75	1.0 0.0	1.5
MPHB2341 (2-Post Configuration)	Q18601.0, Rev.0 (UUT24)	QualTech-NP by Curtiss-Wright	2018	No ¹	2.33 2.75	1.0 0.0	1.5
	BY: Timoth	NOT USED		0			
MP2-115A (2-Post Configuration)	Q18601.0, Rev.0	QualTech-NP by Curtiss-Wright	2018	No ¹	2.33 2.75	1.0 0.0	1.5
GXT4-10000RT208-GE (base mounted - rigid)	JID 19-00422, Rev.1 (UUT1)	Clark Testing	2019	Yes	2.0 2.5	1.0 0.0	1.5
	A BUI	DINGC					
	(2-Post Configuration) AS6A1RCJGNNX223 (base mounted - rigid) MPHB6224 (2-Post Configuration) MPHB2341 (2-Post Configuration) MP2-115A (2-Post Configuration) GXT4-10000RT208-GE	(2-Post Configuration)(UUT21)AS6A1RCJGNNX223 (base mounted - rigid)Q18601.0, Rev.0 (UUT22b)MPHB6224 (2-Post Configuration)Q18601.0, Rev.0 (UUT23)MPHB2341 (2-Post Configuration)Q18601.0, Rev.0 (UUT24)MPHB2341 (2-Post Configuration)Q18601.0, Rev.0 (UUT24)MP2-115A (2-Post Configuration)Q18601.0, Rev.0 (UUT28)MP2-115A (2-Post Configuration)Q18601.0, Rev.0 (UUT28)MP2-115A (2-Post Configuration)Q18601.0, Rev.0 (UUT28)MP2-115A (2-Post Configuration)U1019-00422, Rev.1 (UUT1)	(2-Post Configuration)(UUT21)Curtiss-WrightAS6A1RCJGNNX223 (base mounted - rigid)Q18601.0, Rev.0 (UUT22b)QualTech-NP by Curtiss-WrightMPHB6224 (2-Post Configuration)Q18601.0, Rev.0 (UUT23)QualTech-NP by Curtiss-WrightMPHB2341 (2-Post Configuration)Q18601.0, Rev.0 (UUT24)QualTech-NP by Curtiss-WrightMPHB2341 (2-Post Configuration)Q18601.0, Rev.0 (UUT24)QualTech-NP by Curtiss-WrightMP2-115A (2-Post Configuration)Q18601.0, Rev.0 (UUT28)QualTech-NP by Curtiss-WrightMP2-115A (2-Post Configuration)Q18601.0, Rev.0 (UUT28)QualTech-NP by Curtiss-WrightMP2-115A (2-Post Configuration)Q18601.0, Rev.0 (UUT28)QualTech-NP by Curtiss-WrightGXT4-10000RT208-GE (base mounted - rigid)JID 19-00422, Rev.1 (UUT1)Clark Testing	(2-Post Configuration)(UUT21)Curtiss-Wright2018AS6A1RC JGNNX223 (base mounted - rigid)Q18601.0, Rev.0 (UUT22b)QualTech-NP by Curtiss-Wright2018MPHB6224 (2-Post Configuration)Q18601.0, Rev.0 (UUT23)QualTech-NP by Curtiss-Wright2018MPHB2341 	(2-Post Configuration)(UUT21)Curtiss-Wright2018No ⁻ AS6A1RCJGNNX223 (base mounted - rigid)Q18601.0, Rev.0 (UUT22b)QualTech-NP by Curtiss-Wright2018No ¹ MPHB6224 (2-Post Configuration)Q18601.0, Rev.0 (UUT23)QualTech-NP by Curtiss-Wright2018No ¹ MPHB2341 (2-Post Configuration)Q18601.0, Rev.0 (UUT24)QualTech-NP by Curtiss-Wright2018No ¹ MPHB2341 (2-Post Configuration)Q18601.0, Rev.0 (UUT24)QualTech-NP by Curtiss-Wright2018No ¹ MP2-115A (2-Post Configuration)Q18601.0, Rev.0 (UUT28) EQualTech-NP by Curtiss-Wright2018No ¹ MP2-115A (2-Post Configuration)Q18601.0, Rev.0 (UUT28) EQualTech-NP by Curtiss-Wright2018No ¹ GXT4-10000RT208-GE (base mounted - rigid)JID 19-00422, Rev.1 (UUT1)Clark Testing (2019)2019Yes	(2-Post Configuration) (UUT21) Curtiss-Wright 2018 No ² 3.25 AS6A1RC JGNNX223 (base mounted - rigid) Q18601.0, Rev.0 (UUT22b) QualTech-NP by Curtiss-Wright 2018 No ¹ 2.11 3.15 MPHB6224 (2-Post Configuration) Q18601.0, Rev.0 (UUT23) QualTech-NP by Curtiss-Wright 2018 No ¹ 2.33 2.75 MPHB2341 (2-Post Configuration) Q18601.0, Rev.0 (UUT24) QualTech-NP by Curtiss-Wright 2018 No ¹ 2.33 2.75 MP2-115A (2-Post Configuration) Q18601.0, Rev.0 (UUT28) QualTech-NP by Curtiss-Wright 2018 No ¹ 2.33 2.75 MP2-115A (2-Post Configuration) Q18601.0, Rev.0 (UUT28) QualTech-NP by Curtiss-Wright 2018 No ¹ 2.33 2.75 GXT4-10000RT208-GE (base mounted - rigid) JID 19-00422, Rev.1 (UUT1) Clark Testing 2019 Yes 2.0 2.5	(2-Post Configuration) (UUT21) Curtiss-Wright 2018 No ² 3.25 0.0 AS6A1RCJGNNX223 (base mounted - rigid) Q18601.0, Rev.0 (UUT22b) QualTech-NP by Curtiss-Wright 2018 No ¹ 2.11 3.15 1.0 0.0 MPHB6224 (2-Post Configuration) Q18601.0, Rev.0 (UUT23) QualTech-NP by Curtiss-Wright 2018 No ¹ 2.33 2.75 1.0 0.0 MPHB2341 (2-Post Configuration) Q18601.0, Rev.0 (UUT24) QualTech-NP by Curtiss-Wright 2018 No ¹ 2.33 2.75 1.0 0.0 MP2-115A (2-Post Configuration) Q18601.0, Rev.0 (UUT28) QualTech-NP by Curtiss-Wright 2018 No ¹ 2.33 2.75 1.0 0.0 MP2-115A (2-Post Configuration) Q18601.0, Rev.0 (UUT28) QualTech-NP by Curtiss-Wright 2018 No ¹ 2.33 2.75 1.0 0.0 MP2-115A (2-Post Configuration) Q18601.0, Rev.0 (UUT28) QualTech-NP by Curtiss-Wright 2018 No ¹ 2.33 2.75 1.0 0.0 GXT4-10000RT208-GE (base mounted - rigid) JID 19-00422, Rev.1 (UUT1) Clark Testing 2019 Yes 2.0 2.5 1.0 0.0

1. QualTech-NP by Curtiss Wright was not ISO 17025 accredited at the time of testing but has been reviewed by TRU Compliance and found to meet the requirements for ICC-ES AC156 testing. Review form is on file with TRU Compliance.

1900374-CR-001-R2



Manufacturer:	Vertiv Corporat	tion								
Model Line:	Liebert GXT4 aı	nd APS Si	ngle Phase UPS					l	JUT	1
Model Number:	GXT4-2000RT12	20	-							—
Serial Number:	1712300555AFE	3 <i>B3</i>			Test Rep	oort:	Q18601.	0, Rev.0	UUT1)	
			UUT	Properties			-			
Weight			Dimension (in)			Lowes	t Natural	Freque	ncy (Hz)	
(lbs.)	Dep	th	Width	Height	Front	-Back	Side	-Side	Ver	tical
59	19.5	50	16.88	3.50	7.	20	5.	72	>33	3.33
		υυτ	Highest Passe	d Seismic Run Inf	ormation	1				
Building Cod	e	Test Cr	iteria	S _{DS} (g)	z/h	I _P	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g
CBC 2022		ICC-ES	CIEC OR C	2.33	1.0	1.5	3.73	2 00	1.83	0.72
CBC 2022		ICC-EST	40136	2.75-0	0.0	1.5	5.15	2.80	1.05	0.73
Product Construct	ion Summary:	AF		Test Mounting	Details:					
Carbon Steel Casing	5									
		\leq						- 5		
		2	OSF	P-0101 📷				- 5	1	
Options/Subcomp	onent Summa <mark>ry:</mark>		BY: Timoth	y Piland	r	D T	. 5			
Description	Mfr. F	<mark>Pa</mark> rt Nun	iber							
n/a	n/a n	n/a		2/13/2024				-		
			DATE. V					LIL	A MAR	
							IT T	and the second	71	
		5							É.	
		T	MANN							
			AD				Sa Cl			
			, BUI	DING	0.7		-			
							- FR			
					A	×// ·				
Mounting Details C	ontinued:				T.].		4	19		
					·	1				
	- () () () () () () () () () (
				UUT1 was mount					-	
007-1				SB85219084) 19" rigid to the shake						
-				washer (provided		-				
				attached to the 2						
	1	5		two brackets, ead						
	ar			screws that are s						
				bracket using eig	ht (8) M4 :	screws t	hat are su	pplied w	ith the UI	۶S.
				Unit maintained		-				
		teres and		manufacturer rec	•				itents we	re
				included in testin	ng per ope	rating c	onditions			

TRU Compliance, by Structural Integrity Associates, Inc. 844-TRU-0200 | info@trucompliance.com Page 11 of 39





1900374-CR-001-R2



Manufacturer: V	ertiv Corpo	oration								
Model Line: L	iebert GXT	4 and APS	Single Phase UPS					L	JUT	2
	XT4-3000R		3							-
	723400325				Test Rep	oort:	018601	0, Rev.0 (
	120100020	/ 1 000	UUT	Properties	reserver		Q10001.	0, 1101.01	0012/	
Weight			Dimension (in)			Lowes	t Natural	Freque	ncv (Hz)	
(lbs.)	D	epth	Width	Height	Front	-Back	1	-Side		tical
80		24.00	16.88	3.50		20		72		3.33
			IT Highest Passed							
Building Code			Criteria	S _{DS} (g)	z/h	I _P	А _{ғі х-н} (g)	А _{рід-н} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)
CBC 2022		ICC-ES	AC156 OR C	2.33	1.0	1.5	3.73	2.80	1.83	0.73
			0	2.75	0.0					
Product Construction	summary:	7.		Test Mounting	Details:					
Carbon Steel Casing		1S			CURTISS-	-		T	6	
			090	0101		10				
		R	USF				-			
Options/Subcomponer	t Summa	rv.				\rightarrow		SPT.		
Description	Mfr.	Part Nu		y Piland				-		
-			mber				V. Base			
n/a	n/a	n/a	DATE: 02	2/13/2024		e der	康一	150	2 10	
		VZ W		72 888888887 %		VIN				
							-	-		
			MUNINUS				1	ARK COM	0	
			P		00			STATISTICS.		
			ADU	TALC: C		/				
			· DUI	DINC	Z Axis					
						X Axis		6 /		
						7		1		
Mounting Details Cont	inued:					Y Axis		10.1	6	
	-				De la compañía de la					
5										
	F			UUT2 was mour			-	•	-	
				SB85219084) 19						
	6			rigid to the shak		-				
		B. 1		washer (provide						
			1000	attached to the						
				two brackets, ea screws that are a						
				bracket using ei						
				Unit maintained	-					
				manufacturer re		-	-		-	
	PROFESSION AND AND AND AND AND AND AND AND AND AN			included in testi	-					
					U Complia	-				

TRU Compliance, by Structural Integrity Associates, Inc. 844-TRU-0200 | info@trucompliance.com Page 13 of 39







Manufacturer:	/ertiv Corpo	oration								
	•		Single Phase UPS						JUT	3
	GXT4-5000R		5							
Serial Number:	716902401	BW923			Test Rep	oort:	Q18601.	0, Rev.0 (UUT3)	
			UUT	Properties			-			
Weight			Dimension (in)			Lowes	t Natural	Freque	ncy (Hz)	
(lbs.)	D	epth	Width	Height	Front	-Back	Side	-Side	Ver	tical
141	2	28.00	16.88	6.88	7.	20	5.	72	>33	3.33
		U	JT Highest Passed	Seismic Run Inf	formation	ו				
Building Code		Test (Criteria	S _{DS} (g)	z/h	I _P	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g
CBC 2022			SAC156 RC	2.33	1.0	1.5	3.73	2.80	1.83	0.73
CBC 2022		ICC-E.	5 AC136	2.75	0.0	1.5	5.15	2.60	1.05	0.15
Product Construction	Summary:		E	Test Mounting	Details:					
Carbon Steel Casing		E.							_	
		S.		an and a star way and a star a st			a de			
		2	OSF	P-0101 📄	1			- 5	I	
								1400		
Options/Subcompone	nt Summa	ry:	BY : Timoth	v Piland		nn T	. 5		-	
Description	Mfr.	Part Nı								
n/a	n/a	n/a		0/13/2024			6	34		
			DATE. V					LAL		
							Y T	and the second		
			P							
			AD				No II			
			, POI	DINC	0 8					
					A					
Mounting Details Cont	inued:			0	1.		h /	B	-	
					·					
	TANK									
						DestD	···· / - · · ·	.) C.:	- Dalas D	I. <i>((.</i>
				UUT3 was mount SB85219084) 19"					-	
				rigid to the shake						
				washer (provideo		-				•
				attached to the 2						
	201			two brackets, ea					-	
	1			#12 screws that a						
			YAXS	bracket using eig				•••		
		Ref Di		Unit maintained		-				
	1.		XAxe	manufacturer rec included in testir	-				itents we	ie
							Structura		NACCOC:	ator la





1900374-CR-001-R2



Manufacturer:	Vertiv Corpo	ration								
Model Line:	Liebert GXT4	and APS S	Single Phase UPS	5				L	JUT	4
Model Number:	GXT4-10000F	RT208								-
Serial Number:	17235023721	BW953			Test Re	port:	Q18601.	0, Rev.0 (ÚUT4)	
			וטט	Properties		-				
Weight			Dimension (in)			Lowes	st Natural	Freque	ncy (Hz)	
(lbs.)	D	epth	Width	Height	Fron	t-Back	Side	-Side	Ver	tical
236	2	6.50	17.00	10.50	7.	.20	5.	72	>3	3.33
		UU	T Highest Passe	d Seismic Run In	formatio	n				
Building Code		Test C	riteria	S _{DS} (g)	z/h	Ι _Ρ	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (
CBC 2022		ICC-ES	AC156 OR	002.33	1.0	1.5	3.73	2.80	1.83	0.73
CDC 2022		ICC LS	AC150	2.75-0	0.0	1.5	5.15	2.00	1.05	0.15
Product Construction	Summary:			Test Mounting	Details:					
Carbon Steel Casing		E.			Y			100	1	
		N.						-	-	
		A III	OS	2-0101			-	1-1		
Options/Subcompone				by Piland		10 -1	·			
Description	Mfr.	Part Nu	mber		-	LI			-	
Liebert Power Distrubtic			DATE 0	2/13/2024			1	THE	R.	
Boxes for 8000VA and	Vertiv	PD2-104		199799999999974CH		31				
10000VA Models					No the last				1	
		10			RAIL			(CINING STREET	AL	
					O P		13			
			ARIT	DING	ASIA			1		
			DUI	LDING	THE P			-	-	
							D		1	
					1-1		b			
Mounting Details Cont	tinued:				1. 1		1/2			
	A H									
	mil									
				UUT4 was moun	nted to a 2	-Post B-	line (Fato	n) Seismi	c Relav R	ack (n/i
	ZAvis			SB85219084) 19					-	
				rigid to the shak						
1. 2	Y Axis			washer (provide	ed with 2-F	Post rack	<) and 5/8"	lock was	hers. UL	JT4 was
	INT-			attached to the						
				two brackets, ea					-	
				#12 screws that						
				bracket using ei Unit maintained	•			• •		
				manufacturer re		-				
				included in testi	-					
						-	/ Structura		ty Associ	ates. In
							RU-0200			
						-			1	

Page 17 of 39







Manufacturer:	Vertiv Corpo	ration								
			Single Phase UPS						JUT	5
	GXT4-48VBA		ingle i nase of o							5
	17165000394				Test Rep	ort:	018601	0, Rev.0 (UUT5)	
		10010	υυτ	Properties			Q10001.	0,110110 (0010)	
Weight			Dimension (in)			Lowes	t Natural	Freque	ncv (Hz)	
(lbs.)	Dr	epth	Width	Height	Front	-Back	1	-Side		tical
71		9.50	16.88	3.50	7.3		-	.72	>33	3.33
				l Seismic Run Info						
Building Code		Test C		S _{DS} (g)	z/h	I _P	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g
			on (2.33	1.0	-				
CBC 2022		ICC-ES	AC156	2.75-0	0.0	1.5	3.73	2.80	1.83	0.73
Product Construction	Summary:			Test Mounting	Details:					
Carbon Steel Casing		15								
		N.S.	MINIMATIM - 2003		AN I		a Are	and the second s		
		4	OSF	P-0101	100				12	
Options/Subcompone	ent Summar	'y:	RV · Timoth	y Piland			. 5		_	
Description	Mfr.	Part Nu					· 21	The state		
Liebert Internal Batteri	es - 📊 👝	CVT 4 0.4		14212024			6			
GXT4	Vertiv	GX14-9A	48BATKITE: 02	2/13/202 <mark>4</mark>		NL.		TAL		
		12.W					IT T			
		4	P. MINN					Ne		
			A D.				-			
			BUI	DING	A					
					1 ····		ER P			
				- A	h	S// ·				
Mounting Details Con	tinued:				T.].		q	- 19		
					1 has					
	1									
	5									
				UUT5 was mount				•	2	
				SB85219084) 19" rigid to the shake						
	6			washer (provided		-				
				attached to the 2						
	T			two brackets, ead						
				screws that are su						
				bracket using eig						
	-			Unit maintained s		-				
	1	-		manufacturer rec	-				itents we	re
				included in testin	g per ope	rating c	conditions	•		





1900374-CR-001-R2



Manufacturer:	/ertiv Corpo	oration								
Model Line:	iebert GXT	4 and APS S	ingle Phase UP	PS				Ι L	JUT	6
Model Number:	GXT4-72VBA	A <i>TT</i>								•
Serial Number:	715200425	5ADC83			Test Rep	oort:	Q18601.	0, Rev.0 ((UUT6)	
			UU	IT Properties						
Weight			Dimension (in	ו)		Lowes	t Natura	l Freque	ncy (Hz)	
(lbs.)	D	Depth	Width	Height	Front	-Back	Side	-Side	Ver	tical
97	Ĩ	23.50	16.88	3.50	7.	20	5.	.72	>3	3.33
		UU	T Highest Pass	ed Seismic Run In	formation	ו				
Building Code		Test C	riteria	S _{DS} (g)	z/h	I _P	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g
CBC 2022		ICC-ES	ACTEGOR	2.33	1.0	1.5	3.73	2.80	1.83	0.73
CBC 2022		ICC-ES	AC136	2.75	0.0	1.5	5.15	2.80	1.05	0.15
Product Construction	Summary	:		Test Mounting	Details:					
Description	Mfr.	Part Nui		my Pliand		P	. 3		2	
Options/Subcompone <i>Description</i> <i>Liebert Internal Batterie</i> <i>GXT4</i>	Mfr.	Part Nui		thy Piland						
			NIA BU	ILDING						
Mounting Details Cont		•	0 P 6 c	UUT6 was moun SB85219084) 19' rigid to the shak plate washer (pr was attached to contains two bra eight (8) #12 scre secured to the b the UPS.	' (W) x 84" e table wit ovided wit the 2-Post ackets, eac ews that a	(H). The ch four (4 th 2-Pos t rack wi ch brack re suppl	2-Post ra 4) 5/8"-11 at rack) and ith a 2U TE act was sec ied with th	ck was ba Grade 8 h d 5/8" loc ELECOMR cured to t he kit. The	ase mour nex bolts k washer KIT. The he rack u e UUT wa	nted- with rs. UUT6 kit using us

Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test. Contents were included in testing per operating conditions.







1900374-CR-001-R2



Manufacturer:	Vertiv Corpo	oration								
Model Line:	Liebert GXT4	4 and APS	Single Phase UPS					l	JUT	7
Model Number:	GXT4-144VB	ATT	-							-
Serial Number:	1705000062	BY983			Test Rep	oort:	Q18601	.0, Rev.0 ((UUT7)	
			UUT	Properties						
Weight			Dimension (in)			Lowes	st Natura	l Freque	ncy (Hz)	
(lbs.)	D	epth	Width	Height	Front	-Back	Side	-Side	Ver	tical
106	2	6.00	16.88	3.38	7.	20	5	.72	>3	3.33
		U	JT Highest Passe	d Seismic Run Inf	ormation	1				
Building Code		Test (Criteria	S _{DS} (g)	z/h	Ι _Ρ	A _{FLX-H} (g	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g
CBC 2022			SAC156 OR C	2.33	1.0	1.5	3.73	2.80	1.83	0.73
CDC 2022		ICC-E	S AC136	2.75 0	0.0	1.5	5.15	2.80	1.65	0.13
Product Construction	Summary:	~		Test Mounting	Details:					
-		PEUL						-		
		SI								
		A	OSł	-0101				-5	1E	
							· 1 61	1900		
Options/Subcompone	nt Summai		BY: Timoth	y Piland 🚺	7	no E	. 5		5	
Description	Mfr.	Part Ni	ımber						-	
Liebert Internal Batterie	es - Vertiv	GXT4-14	44VBATKIT 0	2/13/2024		A. /		74 16		
GXT4			BARIE. 0					ASK		
								And A		
								man		
			PALE		50 -		12			
			APUT		CO C		h at the			
			· DUI	DING	01					
							N FR			
					A		9			
Mounting Details Con	tinued:			2	1.1		4	B		
	May C									
									- Dalau D	
	ZANIS			UUT7 was mount SB85219084) 19"					-	
				rigid to the shake						
	Axis			washer (provided						
				attached to the 2						
	L			two brackets, ea						
				scrows that are s						



screws that are supplied with the kit. The UUT was secured to the bracket using eight (8) M4 screws that are supplied with the UPS. Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test. Contents were included in testing per operating conditions.

TRU Compliance, by Structural Integrity Associates, Inc. 844-TRU-0200 | info@trucompliance.com Page 23 of 39





1900374-CR-001-R2



Manufacturer: V	ertiv Corpo	ration								
Model Line:	iebert GXT4	and APS S	Single Phase UPS					Ι ι	JUT	8
Model Number: G	XT4-288VB/	ATT								•
Serial Number: 1	7185000066	6BY993			Test Rep	oort:	Q18601.	0, Rev.0 ((UUT8)	
			נטט	Properties						
Weight			Dimension (in)			Lowes	t Natura	Freque	ncy (Hz)	
(lbs.)	De	epth	Width	Height	Front	-Back	Side	-Side	Ver	tical
184	2	6.13	16.88	6.88	7.	20	5.	.72	>3	3.33
		UU	T Highest Passe	d Seismic Run In	formation	1				
Building Code		Test C	riteria	S _{DS} (g)	z/h	I _P	A _{FLX-H} (g)	А _{rig-н} (g)	A _{FLX-V} (g)	A _{RIG-V} (g
CBC 2022		ICC-ES	AC156 OR C	2.75	1.0	1.5	3.73	2.80	1.83	0.73
Product Construction S	Summary:			Test Mounting	Details:					
Carbon Steel Casing	-	S								
Ũ					Mar 1		a Are	-		
		<u> </u>	OSI	-0101						
								S 1	jE	
Options/Subcomponer	nt Summar	'v:	DV. Timet	y Diland			1 5			
Description	Mfr.	Part Nui		y Piland	×	Par -	· 11	T		
Liebert Internal Batteries							6			
GXT4	Vertiv	GXT4-288	svbatkit 0	2/13/202 <mark>4</mark>				Pala		
									Ē	
					TPAN >			The state		
					045		-			
			BUI	DING	New P					
					1 1					
				-			D		-	
Mounting Dataila Conti	in o d .			-	J-A		6			
Mounting Details Cont	inuea:				. 11	() ·	1/	The P	•	
	ZAvis			UUT5 was mour	nted to a 2-	Post B-	Line (Eato	n) Seismi	c Relay R	ack (p/r
				SB85219084) 19					-	
	X Axis			rigid to the shak		-				
J-P. C. S.	PH U			washer (provide						
	M.			attached to the						
				two brackets, ea					0 0	
	-14			screws that are	••					
				bracket using ei	-					
	-00-	1 21		Unit maintained	i structural	integri	ly and rem	iained fui	nctional	ber

TRU Compliance, by Structural Integrity Associates, Inc. 844-TRU-0200 | info@trucompliance.com Page 25 of 39

manufacturer requirement after shake table test. Contents were

included in testing per operating conditions.





1900374-CR-001-R2



Manufacturer:	Vertiv Corpoi	ration								
Model Line:			ingle Phase UPS						UT 2	
Model Number:	EBC-16 Bay	unu AFS S	ingle Fluse OFS					U		20
Serial Number:	1613000009A	11/110			Tost Do	t.	019601	0 Day 0/	(1111720b)	
Serial Number:	1613000009A	10/113		Properties	Test Rep		Q18601.	0, Rev.0 (UUT20b)	
Mainht			Dimension (in)	Properties	1		at Natural	Fragua	acy (U-)	
Weight (lbs.)			Width	Usisht	Front	-Back	st Natural	-Side		tical
		epth		Height 38.13						
755	20	3.00	17.25	d Seismic Run Info		.17	1.	56	23	.14
Building Code		Test Ci	•		1		A (~)	۸ (م)	A (a)	A (a)
Building Coa	e	Test Ci	iteria	S _{DS} (g)	z/h	I _P	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)
CBC 2022		ICC-ES	AC156 RC	002.11	1.0	1.5	3.38	2.53	2.10	0.84
			O FOIL	3.15	0.0					
Product Constructi	2	- P		Test Mounting I	Details:					
Carbon Steel Casing		151			N'Z					
					727	5				
		A M	051	-0101				N - M	E Nelle	
						500		V	N. MI	ST &
Options/Subcompo			BY: Timoth	y Pi land	-	T		1		ALLE A
Description	Mfr.	Part Nur	nber				Mining any			D C
n/a	n/a	n/a		2/13/2624				th	HA	
			DAIL. 9					14	D.	
								MIT		
							- Či	a		
					O'			0	1. 2	:7 =
			ADU	Z Axis	X Axis			×.	1 1	47 17
			· BUI	DI	1			1	· · · · ·	4.
Mounting Details C	ontinued:			1				1	Nountin	g
				1					Brackets	5
		100								
	Cap		No.							
			1							• >
	1		- In	UUT20 was base		-			-	
Mounting			- 430	mounting bracke Mounting bracke						
Brackets				shake table using	•		-			
			1	flat washers. A to						
		India.	*	to shake table.		. (2) 0/				
			17	Unit maintained	structural	integri	ty and rem	ained fur	nctional p	ber
	7/ .			manufacturer rec		-				
				included in testin	ig per ope	erating	conditions.			

TRU Compliance, by Structural Integrity Associates, Inc. 844-TRU-0200 | info@trucompliance.com Page 27 of 39

1900374-CR-001-R2



Manufacturer	utius Carraa	ration								
	rtiv Corpo bort GXTA		ngle Phase UPS						JT 2	1Λ
	5-10 Bay	unu AFS Si	ligie Fluse OF5)					J Z	TH
	5-10 Бау 250001614	11012			Test Re	nort.	019601	0, Rev.0 (
Serial Nulliber: 172	230001017	10043		Properties	Test Re		Q10001.	<i>0, Rev.0</i> (00121)	
Weight			Dimension (in)	-		Lowos	t Natural	Eroquoi))) (H7)	
(lbs.)		epth	Width	Height	Eront	Back		-Side		tical
531		2.00	17.25	27.50		.91		.59		3.33
551	5.			d Seismic Run Inf			12	.55		
Building Code		Test Cri		S _{DS} (g)	z/h	· Ip	A _{FLX-H} (g)	A _{PIC H} (g)	A _{ELV V} (g)	Anic v (g
			00	2.43	1.0					
CBC 2022		ICC-ES A	AC156 OK	2.64	0.0	1.5	3.89	2.92	1.76	0.70
Product Construction Su	ımmarv:		9 Million	Test Mounting	1					
Carbon Steel Casing	-	1.S			NC)					
		REVIE								
		2	OS	-0101	I	hi		1	1ª	
						1. 14	-	, AT	VA	
Options/Subcomponent	_		BY: Timotl	ay Piland		-	Le		X	
Description	Mfr.	Part Num	ber			100	and the second s		123	
Liebert Power Distrubtion			DATE · 0	2/13/2024	×1			-		
Boxes for 8000VA and	Vertiv	PD2-104				V	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Manage on		
10000VA Models				-	-n		TRD			
					· Let		21			
		1	1	-	je A	1				
			A BLIT	ZAxis						
			501	Y Axis	X Axis		the second			
				TAXIS	p.			-		
									Mountir Bracke	0
				-			W. Stranger		ыаске	L
				-						
				-						
				-						
				-						
				UUT21A was bas		-			-	
				mounting bracke Mounting bracke						
				shake table using						
				flat washers. A to	-					
				to shake table.	0	. , ,		-	-	
				Unit maintained	structura	l integrit	ty and rem	ained fur	nctional p	ber
<u> </u>				manufacturer re	•				tents we	re
				included in testin	ng per ope	erating o	onditions			

TRU Compliance, by Structural Integrity Associates, Inc. 844-TRU-0200 | info@trucompliance.com Page 28 of 39

1900374-CR-001-R2



Manufacturer:	/ertiv Corporation								
	iebert GXT4 and APS	Sinale Phase UPS					111	JT 2	1R
	AS5-10 Bay								
				Test Re	port:	018601.	0, Rev.0 (UUT21)	
		υυτ	Properties			<u></u>			
Weight		Dimension (in)			Lowes	t Natural	Freque	ncy (Hz)	
(lbs.)	Depth	Width	Height	Front	-Back	-	-Side		tical
531	32.00	17.25	27.50	6.	96	5.	14	>33	3.33
	U	UT Highest Passed	l d Seismic Run Info	ormation	1				
Building Code	Test	Criteria	S _{DS} (g)	z/h	Ι _Ρ	A _{FLX-H} (g)	А _{гід-н} (g)	A _{FLX-V} (g)	A _{RIG-V} (g
		DIA DOD (2.09	1.0					
CBC 2022	ICC-E	S AC156	3.25 0	0.0	1.5	3.34	2.51	2.17	0.87
Product Construction	Summary:	EVIDIN	Test Mounting I	Details:			L	L	L
Carbon Steel Casing				4					
	S			RT	41	1	TO		
	4	OSF	2-0101			-1			
						Alexandre I		-	
Options/Subcompone	nt Summa <mark>ry:</mark>	BY · Timoth	y Piland				1	1	
Description	Mfr. Part N				· 15		F		
Liebert Power Distrubtio	n 🖉	DATE. O	0/12/2024					fra	
Boxes for 8000VA and	Vertiv PD2-10	4 DATE: U	2/13/2024						
10000VA Models									
				2		THE P			
		BLIT	DING					5	
				ap?				-	
	• •								
Mounting Details Cont	inued:								
		ur (4) M4	UUT21B was mou	inted to a	a 2-Post	B-Line (Fa	ton) Seisi	mic Relay	Rack
	Sc Sc	rews	(p/n: SB85219084					-	
			to the shake table						
			washer (provideo	0					•
21			was mounted to	rack usin	g Rack S	olutions S	helf Kit (F	P/N 2USH	L-100)
			and one and a ha	lf (1.5) 2-	Post Co	nversion B	rackets (p	o/n: 2POS	ST-
			7UKIT) and two C	hatswort	th rear st	trap (p/n: 1	12086-719	9). The ur	nit was
	1 Ne		affixed to the she	lf kit and	bracket	s using eig	t (8) M4	bolts at o	each of
	A.		the units ears.						
	T		Unit maintained		-	-		-	
	1 1 1 1		manufacturer rec	-				tents we	re
			included in testin	ig per ope	erating c	onditions.			

TRU Compliance, by Structural Integrity Associates, Inc. 844-TRU-0200 | info@trucompliance.com Page 29 of 39







Manufacturer: Ver	tivCorpo	ration								
	tiv Corpo bort CVT4		ingle Dhace LIDS						UT 2	า
		unu aps si	ingle Phase UPS					U		
	5-16 Bay)38002564	NUMED			Test Re	novt.	010001	0, Rev.0 ((11117226)	
Serial Namber: 170	38002307	40033		Properties	Test Re		Q10001.	0, Rev.0 (001220)	
Waight			Dimension (in)	Properties	Т	Lowos	t Natural	Eroquo	ncv (Hz)	
Weight (lbs.)		epth	Width	Height	Eront	Back		-Side		tical
838	-	3.50	17.25	38.13	_	.92		.72		.85
000	5.			d Seismic Run In			1	.12	50	.00
Building Code		Test Cri	-	S _{DS} (g)	z/h	- Ip	А _{ғіх-н} (g)	Ancu (g)	A _{ELV V} (g)	Anic v (g
			20	2.11	1.0					
CBC 2022		ICC-ES A	AC156 OK	3.15	0.0	1.5	3.38	2.53	2.10	0.84
Product Construction Su	mmary:			Test Mounting	Details:					
Carbon Steel Casing	2	5								
_		N.S.			XXXX Y	2				
		4	OSF	P-0101		2				
					FA I				V	
Options/Subcomponent	Summar	y:	BY · Timoth	VOIBA				1	Harc	
Description	Mfr.	Part Num	iber		ME_	1.0	TANKAR			
Liebert Power Distrubtion									RUIE.	
Boxes for 8000VA and	Vertiv	PD2-104	DAIE. V							H_
10000VA Models					PP S				Z	
				I Kale						
		1 A		S MON						and the second second
			APUT	ZAxis	4				- Cai	-
			DUI	ZAXIS			2-11	the to		
				X Axis			5-1			-
					YAX	is			1	
								and the second		24
					Ν	/ountir	ng Bracke	ts		
				UUT22 was base		-			-	
				mounting brack						
				Mounting brack shake table usin						
				flat washers. A t	-					
				to shake table.	8	× / -/ -				
				Unit maintained		-				
				manufacturer re					itents we	re
				included in testi	ng per ope					

1900374-CR-001-R2



Manufacturer:	Vertiv Corporat	tion								
Model Line:	Liebert GXT4 aı		gle Phase UPS					U	UT 2	23
Model Number:	MPHB6224								• • •	
Serial Number:	V16J2600147				Test Rej	port:	Q18601.	0, Rev.0 (UUT23)	
			UUT	Properties	-					
Weight		D	imension (in)			Lowes	t Natura	Freque	ncy (Hz)	
(lbs.)	Dep	th	Width	Height	Front	-Back	Side	-Side	Ver	tical
23	10.0	0	19.00	3.50	7.	20	5.	.72	>33	3.33
	•	UUTI	Highest Passea	Seismic Run Info	ormation	1				
Building Cod	e	Test Crit	eria	S _{DS} (g)	z/h	I _P	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g
CDC 2022			CITCOR (2.33	1.0	1 Г	2 72	2.00	1 0 2	0 70
CBC 2022		ICC-ES A	2156	2.75-0	0.0	1.5	3.73	2.80	1.83	0.73
Product Construct	ion Summary:	AF		Test Mounting D	etails:					
Carbon Steel Casing	;	E.			1 F					
	i i i i i i i i i i i i i i i i i i i	\sum			427					
		21	OSF	°-0101						
								10-45-		- C
Options/Subcompo		E	3Y: Timoth	y Piland		0			- States	S
Description		Part Numb	ber	cult	-					L
n/a	n/a r	n/a		2/13/2024	2		HEIO .			
			JAIL. V			INTE E PO D				
										1000
						IN NOO				-
		R			RE				Z Axis	
			ADUT	FIG C	0000					X Axis
			DUI				1000		-	
				C.				Y Axis		
Mounting Details C	ontinued:									
Fou	r (4) M4 Screws									
	\land									
		and the second se								
			1	UUT23 was moun	ted to a 2	2-Post B	-Line (Eat	on) Seism	ic Relay	Rack
			INT	(p/n: SB85219084) 19" (W)	x 84" (H). The 2-P	ost rack v	vas base	
20B				mounted-rigid to			-			
				bolts with plate w						
	ERICE			washers. UUT23 v	vas attac	hed to t	he 2-Post	rack usin	g four (4)	M4
				screws at it ears.	tructure	lintori	wand row	ained for	actional -	or
	.00,00			Unit maintained s manufacturer req		-				

included in testing per operating conditions.

TRU Compliance, by Structural Integrity Associates, Inc. 844-TRU-0200 | info@trucompliance.com Page 32 of 39

1900374-CR-001-R2





TRU Compliance, by Structural Integrity Associates, Inc. 844-TRU-0200 | info@trucompliance.com

1900374-CR-001-R2



Manufacturer:	Vertiv Corpor	ration								
Model Line:	•		ingle Phase UPS					U	UT 2	24
Model Number:	MPH82341		J						v i 4	
Serial Number:	V16E2600129)			Test Rep	port:	<i>018601.</i>	0, Rev.0 (UUT1)	
			UUT	Properties			-		,	
Weight			Dimension (in)			Lowes	t Natural	Freque	ncy (Hz)	
(lbs.)	De	pth	Width	Height	Front	-Back	1	-Side		tical
8).50	19.00	1.75	7.	20	5.	72	>33	3.33
		דטט	⁻ Highest Passed	Seismic Run Info	ormation	1				
Building Cod	e	Test Cr	iteria	S _{DS} (g)	z/h	I _P	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (
			-D C	2.33	1.0					
CBC 2022		ICC-ES	AC156 OK	2.75-01	0.0	1.5	3.73	2.80	1.83	0.73
Product Construct	ion Summary:		Y	Test Mounting	4		ļ	ļ	ļ	
Options/Subcomp	onent Summar	N:		2-0101						C S
Description	Mfr.	Part Nun	BY: Timoth	y Filane	E.	0 E		-	T	
Mounting Details C		ALL OF	AVIA BUI					Y Axis	Z Axis	X Axis
	rr (4) M4 Screw	vs		UUT24 was moun					-	Rack
				(p/n: SB85219084 mounted-rigid to bolts with plate w washers. UUT24 v screws at the ears Unit maintained s manufacturer req	the shak vasher (p vas attac s. s.	e table u rovided hed to tl l integrit	ising four with 2-Pos he 2-Post y and rem	(4) 5/8"-1 st rack) a rack usin nained fur	.1 Grade 8 nd 5/8" lc g four (4) nctional p	ock M4 oer

included in testing per operating conditions.

TRU Compliance, by Structural Integrity Associates, Inc. 844-TRU-0200 | info@trucompliance.com Page 34 of 39

1900374-CR-001-R2





TRU Compliance, by Structural Integrity Associates, Inc. 844-TRU-0200 | info@trucompliance.com Page 35 of 39

1900374-CR-001-R2



Manufacturer:	Vertiv Corpo	oration								
Model Line:	Liebert GXT4 and APS Single Phase UPS						UUT 28			
Model Number:	MP2-115A									
Serial Number:	1716100024	AG333			Test Re	port:	Q18601.	0, Rev.0 (′UUT28)	
			UU	T Properties						
Weight			Dimension (in)		Lowes	t Natura	Freque	ncy (Hz)	
(lbs.)	D	epth	Height	Front-Back 7.20		Side	-Side	Ver	tical	
7			15.00			3.50	5.72		>33.33	
		UU	T Highest Passe	d Seismic Run Info	ormatio	n				
Building Code		Test Cı		S _{DS} (g)	z/h	I _P	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (
			DD (2.33	1.0					
CBC 2022		ICC-ES	AC156	2.75-01	0.0	1.5	3.73	2.80	1.83	0.73
Product Constructio	n Summary:			Test Mounting	4					
Options/Subcompor	ient Summa	ry:	BY' Timot	hy Hand						r C s
Description	Mfr.	Part Nur	BY: LIMOI	ny Hilane	ė.			-	Th	
n/a	n/a	n/a	1011114001666888888		2	8				
n a	ni, a		DATE: 0	2/13/2024		S/ 105	1010			
		Y	144666666666	- Chick		SHE AND	-		1	CLERCH!
										1000
			ANNINNN -				13 .			-
		4				-	Contraction of the second seco		Z Axis	t.
			Vi				• •		1	X Axis
			BH	- DING	8998		-		1	-
			-01				T			
				Contraction of the second			• •	Y Axis		
Mounting Details Co	ntinued:									
Four	(4) M4 Screv	ws								
	F D unor C	D'ED	a statement	UUT28 was moun					-	Rack
	心 四角日	n n		(p/n: SB85219084			•			
				mounted-rigid to			0			
			2	bolts with plate w						
				washers. UUT28 v		hed to t	he 2-Post	rack usin	g four (4)	M4
		20		screws at the ears						
			8	Unit maintained s						
				manufacturer req	uiremen	t after sl	nake table	test. Cor	ntents we	re

included in testing per operating conditions.







Manufacturer:	Vertiv Corporati	on										
Model Line:	Liebert GXT4 and APS Single Phase UPS							U	UUT 29			
Model Number:	GXT4-10000RT20	08-GE							• • •			
Serial Number:	n/a				Test Re	port:	JID 19-0	0422, Re	v.1 (UUT.	1)		
	-		UUT	Properties		-						
Weight		Dime	ension (in)			Lowes	t Natura	l Freque	ncy (Hz)			
(lbs.)			Width	Height	Front-Back		Side-Side		Ver	tical		
268	27.50	27.50 14.38			29.67		25.52		>33.33			
		UUT Hig	hest Passed	d Seismic Run Inf	formation	n						
Building Code	-	Test Criteri	а	S _{DS} (g)	z/h	Ι _Ρ	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g		
CBC 2022		CC-ES AC15	2.5	1.0	1.5	3.20	2.40	1.67	0.67			
CDC 2022		O FO			0.0	1.5	5.20	2.10	1.01	0.01		
Product Construction	n Summary:	NEV		Test Mounting	Details:							
Carbon Steel Casing		L'			NY.			-				
	I.	\geq					1.0	1	121			
	A		OSF	P-0 10 1		m			n'			
<u> </u>			- -					300	S.	192		
Options/Subcompon		BY	Timoth	y P <mark>iland</mark>		0			har	P		
Description		art Number				-						
n/a	n/a n/	D/	TE: 0	2/13/2024		\sim	14 M		1			
			2222222222	DAB COM		V/				-		
									-			
					"AN			04.02	2019 10-3			
		-TAV		MA	JV	1		and with	the factor	7		
			BUT	DING			Mou	nting Bra	acket			
				-								
Mounting Details Cor	ntinued:											
M	ounting Bracker	ts		UUT29 was base mounting bracke Mounting bracke shake table using washers and lock to mount unit to Unit maintained manufacturer ree	ets (p/n: 6 ets are sup g five (5) 1 k washers shake tat structura	3240chn oplied by ./2"-13 h . A total ole. Torq l integrit	n), one on v the manu ex head G of ten (10) ued to 50 sy and rem	each sid ufacturer irade 8 bo) 1/2"-13 ft./lbs. nained fu	e of the u and affix blts with bolts we nctional	nit. ed to the flat re used per		

Network Equipment Racks & Accessories

Two-Post Relay Rack

Two-Post Seismic Relay Rack 19" & 23" Panel Mounting, Welded Steel

- Independently tested to NEBS GR-63-CORE Seismic Zone 4 standard; and for 900 lbs. (408kg) of equipment
- Independent testing conducted in accordance with ICBO AC156 standard for use up to 900 lbs. (408kg)
- Conformance to EIA/ECA-310-E
- Mounting rail spacing is adjustable from 3" (76mm) to 8" (203mm)
- 43 RMU (rack mounting units)
- Open top, bottom, and sides permit unlimited cable management options
- Industry standard mounting holes on sides allow attachment of vertical cable managers

- Tubular steel frame provides a high degree of strength to weight ratio
- See page ii for link to OPM approvals
- Concrete installation requires (4) AWA-62-350 (sold separately)
- Finish ____: Flat black powder coat (FB) Telco gray powder coat (TG)



	Part Number	'A' Height In. (mm)		ʻW′ Spacing In. (mm)		Mounting Spaces	Shipping Weight ^{Lbs.} (kg)	
	19" (482mm) Rack Width							
-	SB85219084	84"	(2133)	24¾"	(628)	43	113 (51.3)	
	<u>SB85219096</u>	96"	(2438)	<u>24</u> ³⁄4"-	(628)	49	- 124 (56.2)	
	23" (584mm) Rack Width							
	SB85223084	84"	(2133)	28 ³ /4"	(730)	43	- 117 (53.1)	
	SB85223096	96"-	(2133)	-28 ³ /4"-	(730)	49	- 127 (57.6)	

Specify part number and finish when ordering.