



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

APPLICATION FOR HCAI SPECIAL SEISMIC
CERTIFICATION PREAPPROVAL (OSP)

OFFICE USE ONLY

APPLICATION #: OSP-0639

HCAI Special Seismic Certification Preapproval (OSP)

Type: ☐ New ☒ Renewal

Manufacturer Information

Manufacturer: Vertiv Corporation

Manufacturer's Technical Representative: Julian Freeman

Mailing Address: 975 Pittsburgh Drive, Delaware, OH 43015

Telephone: (740) 833-8910

Email: Julian.Freeman@vertiv.com

Product Information

Product Name: Uninterruptible Power Supply (UPS)

Product Model Number(s): GXT-5

Product Category: UPS and Batteries

Product Sub-Category: UPS

General Description: GXT5 0.5kVA to 10kVA UPS

Mounting Description: Rack mounted - rigid

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

Applicant Information

Applicant Company Name: TRU Compliance, by Structural Integrity Associates, Inc.

Contact Person: Victoria Ahrens

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

Telephone: (541) 292-5820

Email: vahrens@structint.com

Title: Certification Engineer



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

Company Name: STRUCTURAL INTEGRITY ASSOCIATES, INC.

Name: LACHEZAR HANDZHIYSKI

California License Number: S6515

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

Telephone: (669) 437-0200

Email: Lhandzhiyski@StructInt.com

Certification Method

☐ GR-63-Core

☒ ICC-ES AC156

☐ IEEE 344

☐ IEEE 693

☐ NEBS 3

☐ Other (Please Specify): _____

Testing Laboratory

Company Name: ENVIRONMENTAL TESTING LABORATORIES, INC. (ETL)

Contact Person: Jeremy Lange

Mailing Address: 11034 Indian Trail, Dallas TX 75229-3513

Telephone: (972) 247-9657

Email: jeremy@etldallas.com

Company Name: UNIVERSITY OF CALIFORNIA, BERKELEY (PEER)

Contact Person: Amarnath Kasalanati

Mailing Address: 325 Davis Hall, Berkeley CA 94720-1729

Telephone: (510) 642-3437

Email: Amarnath1@berkeley.edu



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Seismic Parameters

Certified Response Spectral Acceleration Factors:(F_p/W_p)

Horizontal (A Flx-H), g= 3.20 (A Rig-H), g= 2.15

Vertical (A Flx-V), g= 1.67 (A Rig-V), g= 0.67

SDS (Design spectral response acceleration at short period, g) = 2.00 (z/h = 1.0); 2.50 (z/h = 0.0)

H_f (Force amplification height factor) = 3.5 (z/h = 1.0); 1.0 (z/h = 0.0)

R_u (Structure ductility reduction factor) = 1.3 (z/h = 1.0); 1.0 (z/h = 0.0)

I_p (Importance factor) = 1.5

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

HCAI Approval (For Office Use Only) - Approval Expires on 08/18/2032

Date: 8/18/2026

Name: Mohammad Karim

Title: Supervisor, Health Facilities

Condition of Approval (if applicable): _____

OSP-0639

BY: Mohammad Karim

DATE: 08/18/2026

SPECIAL SEISMIC CERTIFICATION CERTIFIED COMPONENT MATRIX

1900509-CR-001-R5



Manufacturer: Vertiv Corporation						TABLE 1	
Model Line: GXT-5							
Certified Product Construction Summary: Carbon Steel Enclosures							
Certified Options Summary: n/a							
Mounting Configuration: Rack mounted - rigid in a 2-Post Seismic Rack (PN: SB85219084) Note: Installed mounting must be of similar configuration and equivalent strength and stiffness to those tested.							
Building Code: CBC 2025		Seismic Certification Limits: $S_{DS} = 2.00g$ $z/h=1.0$ $R_{\mu} = 1.3$ $H_f = 3.5$ $I_p = 1.5$ $S_{DS} = 2.50g$ $z/h=0.0$ $R_{\mu} = 1.0$ $H_f = 1.0$					
Model Line	Model	Dimensions (in)			Weight (lbs.)	Notes	UUT
		Depth	Width	Height			
GXT5 UPS Low Voltage (120V) 500VA to 3kVA	750-LVRT2UXL	15.8	16.9	3.3	37		Extrap.
	1000LVRT2UXL	15.8	16.9	3.3	37		Extrap.
	1500LVRT2UXL	18.6	16.9	3.3	46		Extrap.
	2000LVRT2UXL	18.6	16.9	3.3	51		1A
	3000LVRT2UXL	21.3	16.9	3.3	66		2A
GXT5 UPS Medium Voltage (120/208V) 5kVA to 10kVA	5000MVRT4UXLN	26.8	16.9	6.7	126		Extrap.
	6000MVRT4UXLN	26.8	16.9	6.7	126		2B
	8000MVRT6UXLN	26.8	16.9	10.3	225		Interp.
	10KMVRT6UXLN	26.8	16.9	10.3	233		1B
GXT5 UPS High Voltage (208V) 3kVA to 10kVA	3KL620RT2UXL	21.3	16.9	3.3	65		2C
	3KL630RT2UXL	21.3	16.9	3.3	71		Interp.
	5000HVRT5UXLN	24.9	16.9	8.5	150		Interp.
	6KL630RT5UXLN	24.9	16.9	8.5	158		1C
	8000HVRT5UXLN	24.9	16.9	8.5	162		Interp.
	10KHVRT5UXLN	24.9	16.9	8.5	162		1D
GXT5 External Battery Cabinet 36 to 384 Volt	EBC36VRT2U	15.8	16.9	3.3	50		Extrap.
	EBC48VRT2U	18.6	16.9	3.3	66		1E
	EBC72VRT2U	21.3	16.9	3.3	91		2D
	EBC144VRT2U	26.8	16.9	3.3	137		Interp.
	EBC192VRT3U	24.8	16.9	5.1	137		1F
	EBC288VRT4U	16.8	16.9	6.8	200		1G
Notes: 1. See Table 2 for equivalent listing in 4-post rack							

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SPECIAL SEISMIC CERTIFICATION CERTIFIED COMPONENT MATRIX

1900509-CR-001-R5



Manufacturer: Vertiv Corporation						TABLE 2	
Model Line: GXT-5							
Certified Product Construction Summary: Carbon Steel Enclosures							
Certified Options Summary: n/a							
Mounting Configuration: Rack mounted - rigid in a 4-Post Seismic Rack (PN: GL840EZ-3042) Note: Installed mounting must be of similar configuration and equivalent strength and stiffness to those tested.							
Building Code: CBC 2025		Seismic Certification Limits: $S_{DS} = 2.00\text{ g}$ $z/h=1.0$ $R_{\mu} = 1.3$ $H_f = 3.5$ $I_p = 1.5$ $S_{DS} = 2.50\text{ g}$ $z/h=0.0$ $R_{\mu} = 1.0$ $H_f = 1.0$					
Model Line	Model	Dimensions (in)			Weight (lbs.)	Notes	UUT
		Depth	Width	Height			
GXT5 UPS Low Voltage (120V) 500VA to 3kVA	750-LVRT2UXL	15.8	16.9	3.3	37		Extrap.
	1000LVRT2UXL	15.8	16.9	3.3	37		Extrap.
	1500LVRT2UXL	18.6	16.9	3.3	46		Extrap.
	2000LVRT2UXL	18.6	16.9	3.3	51		3A
	3000LVRT2UXL	21.3	16.9	3.3	66		4A
GXT5 UPS Medium Voltage (120/208V) 5kVA to 10kVA	5000MVRT4UXLN	26.8	16.9	6.7	126		Extrap.
	6000MVRT4UXLN	26.8	16.9	6.7	126		4B
	8000MVRT6UXLN	26.8	16.9	10.3	225		Interp.
	10KMVRT6UXLN	26.8	16.9	10.3	233		3B
GXT5 UPS High Voltage (208V) 3kVA to 10kVA	3KL620RT2UXL	21.3	16.9	3.3	74		Extrap.
	3KL630RT2UXL	21.3	16.9	3.3	65		4C
	5000HVRT5UXLN	24.9	16.9	8.5	150		Interp.
	6KL630RT5UXLN	24.9	16.9	8.5	158		3C
	8000HVRT5UXLN	24.9	16.9	8.5	154		Interp.
	10KHVRT5UXLN	24.9	16.9	8.5	162		3D
GXT5 External Battery Cabinet 36 to 384 Volt	EBC36VRT2U	15.8	16.9	3.3	50		Extrap.
	EBC48VRT2U	18.6	16.9	3.3	66		3E
	EBC72VRT2U	21.3	16.9	3.3	91		4D
	EBC144VRT2U	26.8	16.9	3.3	137		Interp.
	EBC192VRT3U	24.8	16.9	5.1	137		3F
	EBC288VRT4U	16.8	16.9	6.8	200		3G

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SPECIAL SEISMIC CERTIFICATION CERTIFIED SUBCOMPONENT MATRIX

1900509-CR-001-R5



Manufacturer: Vertiv Corporation		Table Description: PODS						TABLE 3			
Model Line: GXT-5											
Building Code: CBC 2025		Seismic Certification Limits:		$S_{DS} = 2.00\text{ g}$ $z/h=1.0$		$R_{\mu} = 1.3$		$H_f = 3.5$		$I_p = 1.5$	
				$S_{DS} = 2.50\text{ g}$ $z/h=0.0$		$R_{\mu} = 1.0$		$H_f = 1.0$			
Model Line (Manufacturer)	Model	Dimension (in)			Weight (lbs.)	Material	Notes	UUT			
		Depth	Width	Height							
Liebert Power Distribution Boxes for 5 kVA & 6kVA Models (Vertiv)	PD5-HDWR-MBS	3.4	16.9	12.0	8.6	Carbon Steel Casing	Hardwired 3W + G(L-L-N-G)	Extrap.			
	PD5-CE6HHDWRMBSU	3.4	16.9	5.1	8.6	Carbon Steel Casing	Hardwired	Extrap.			
	PD5-001	3.5	15.5	5.2	11.0	Carbon Steel Casing	(4)5-20R (1)L14-30R (1)L6-30R	Extrap.			
	PD5-002	3.5	15.5	5.2	10.8	Carbon Steel Casing	(2)5-20R (2)L6-20R	Extrap.			
	PD5-003	3.5	15.5	5.2	10.8	Carbon Steel Casing	(4)5-20R (2)L6-20R	Extrap.			
	PD5-004	3.5	15.5	5.2	12.1	Carbon Steel Casing	(4)L5-20R (2)L5-30R	Extrap.			
	PD5-005	3.5	15.5	5.2	12.8	Carbon Steel Casing	(4)L5-20R (2)L6-30R	2B, 4B			
	PD5-006	3.5	15.5	5.2	11.7	Carbon Steel Casing	(4)L6-20R (4)L5-20R	Interp.			
	PD5-007	3.5	15.5	5.2	11.7	Carbon Steel Casing	(2)L5-20R (2)L6-20R	Interp.			
	PD5-L630	3.4	16.9	5.1	11.5	Carbon Steel Casing	(2)L6-30R (2)L6-20R	1C			
Liebert Power Distribution Boxes for 8 kVA & 10 kVA Models (Vertiv)	PD2-101	1.0	7.4	5.7	4.4	Carbon Steel Casing	(2) L6-30R (8)5-20R	Interp.			
	PD2-103	1.0	7.4	5.7	6.6	Carbon Steel Casing	(4)5-20R (4) L6-30R	Interp.			
	PD2-104	1.0	7.4	5.7	6.6	Carbon Steel Casing	(4)5-20R (2) L5-30R (2) L6-20R	Interp.			
	PD2-105	1.0	7.4	5.7	4.4	Carbon Steel Casing	(4)5-20R (2) L5-30R (2) L6-20R	Interp.			
	PD2-106	1.0	7.4	5.7	6.6	Carbon Steel Casing	(4)L6-20R (4)L5-20R	1B, 3B			
	PD2-107	1.0	7.4	5.7	6.6	Carbon Steel Casing	(4)L5-20R (4)5-15/20R	Interp.			
	PD2-108	1.0	7.4	5.7	6.6	Carbon Steel Casing	(2)L6-20R (2)L6-30R	Interp.			
	PD2-109	1.0	7.4	5.7	4.4	Carbon Steel Casing	(2)L14-30R	Interp.			
	PD5-CE10HSWRMBSU	3.4	16.9	5.1	10.1	Carbon Steel Casing	Hardwired	1D, 3D			

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1900509-CR-001-R5

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UNIT UNDER TEST (UUT) SUMMARY SHEET

1900509-CR-001-R5



Manufacturer: Vertiv Corporation

Model Line: GXT-5

UUT	Unit Description (mounting)	Report Number (UUT#)	Testing Lab	Tested	ISO 17025?	S _{DS}	z/h	R _μ	H _f	I _p
1	Rack Configuration 1	15444, Rev. 2	Environmental Testing Lab (ETL)	30-Sept. to 1-Oct. 2019	Yes	2.00 2.50	1.0 0.0	1.3 1.0	3.5 1.0	1.5
1A	2000LVRT2UXL (rack mounted - rigid 2-Post)	15444, Rev. 2 (UUT1)	Environmental Testing Lab (ETL)	30-Sept. to 1-Oct. 2019	Yes	2.00 2.50	1.0 0.0	1.3 1.0	3.5 1.0	1.5
1B	10KMVRT6UXLN (rack mounted - rigid 2-Post)	15444, Rev. 2 (UUT4)	Environmental Testing Lab (ETL)	30-Sept. to 1-Oct. 2019	Yes	2.00 2.50	1.0 0.0	1.3 1.0	3.5 1.0	1.5
1C	6KL630RT5UXLN (rack mounted - rigid 2-Post)	15444, Rev. 2 (UUT6)	Environmental Testing Lab (ETL)	30-Sept. to 1-Oct. 2019	Yes	2.00 2.50	1.0 0.0	1.3 1.0	3.5 1.0	1.5
1D	10KHVRT5UXLN (rack mounted - rigid 2-Post)	15444, Rev. 2 (UUT7)	Environmental Testing Lab (ETL)	30-Sept. to 1-Oct. 2019	Yes	2.00 2.50	1.0 0.0	1.3 1.0	3.5 1.0	1.5
1E	EBC48VRT2U (rack mounted - rigid 2-Post)	15444, Rev. 2 (UUT8)	Environmental Testing Lab (ETL)	30-Sept. to 1-Oct. 2019	Yes	2.00 2.50	1.0 0.0	1.3 1.0	3.5 1.0	1.5
1F	EBC192VRT3U (rack mounted - rigid 2-Post)	15444, Rev. 2 (UUT10)	Environmental Testing Lab (ETL)	30-Sept. to 1-Oct. 2019	Yes	2.00 2.50	1.0 0.0	1.3 1.0	3.5 1.0	1.5
1G	EBC288VRT4U (rack mounted - rigid 2-Post)	15444, Rev. 2 (UUT11)	Environmental Testing Lab (ETL)	30-Sept. to 1-Oct. 2019	Yes	2.00 2.50	1.0 0.0	1.3 1.0	3.5 1.0	1.5
2	Rack Configuration 2	15444, Rev. 2	Environmental Testing Lab (ETL)	30-Sept. to 1-Oct. 2019	Yes	2.00 2.50	1.0 0.0	1.3 1.0	3.5 1.0	1.5
2A	3000LVRT2UXL (rack mounted - rigid 2-Post)	15444, Rev. 2 (UUT2)	Environmental Testing Lab (ETL)	30-Sept. to 1-Oct. 2019	Yes	2.00 2.50	1.0 0.0	1.3 1.0	3.5 1.0	1.5
2B	6000MVRT4UXLN (rack mounted - rigid 2-Post)	15444, Rev. 2 (UUT3)	Environmental Testing Lab (ETL)	30-Sept. to 1-Oct. 2019	Yes	2.00 2.50	1.0 0.0	1.3 1.0	3.5 1.0	1.5

Notes:

UNIT UNDER TEST (UUT) SUMMARY SHEET

1900509-CR-001-R5



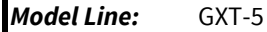
Manufacturer: Vertiv Corporation

Model Line: GXT-5

UUT	Unit Description (mounting)	Report Number (UUT#)	Testing Lab	Tested	ISO 17025?	S _{DS}	z/h	R _μ	H _f	I _p
2C	3KL620RT2UXL (rack mounted - rigid 2-Post)	15444, Rev. 2 (UUT5)	Environmental Testing Lab (ETL)	30-Sept. to 1-Oct. 2019	Yes	2.00 2.50	1.0 0.0	1.3 1.0	3.5 1.0	1.5
2D	EBC72VRT2U (rack mounted - rigid 2-Post)	15444, Rev. 2 (UUT9)	Environmental Testing Lab (ETL)	30-Sept. to 1-Oct. 2019	Yes	2.00 2.50	1.0 0.0	1.3 1.0	3.5 1.0	1.5
3	Rack Configuration 3	1900509-TR-001-R0	Pacific Earthquake Engineering Research Center (PEER)	10-Dec. 2019	Yes	2.00 2.50	1.0 0.0	1.3 1.0	3.5 1.0	1.5
3A	2000LVRT2UXL (rack mounted - rigid 4-Post)	1900509-TR-001-R0 (UUT12)	Pacific Earthquake Engineering Research Center (PEER)	10-Dec. 2019	Yes	2.00 2.50	1.0 0.0	1.3 1.0	3.5 1.0	1.5
3B	10KMVRT6UXLN (rack mounted - rigid 4-Post)	1900509-TR-001-R0 (UUT15)	Pacific Earthquake Engineering Research Center (PEER)	10-Dec. 2019	Yes	2.00 2.50	1.0 0.0	1.3 1.0	3.5 1.0	1.5
3C	6KL630RT5UXLN (rack mounted - rigid 4-Post)	1900509-TR-001-R0 (UUT17)	Pacific Earthquake Engineering Research Center (PEER)	10-Dec. 2019	Yes	2.00 2.50	1.0 0.0	1.3 1.0	3.5 1.0	1.5
3D	10KHVRT5UXLN (rack mounted - rigid 4-Post)	1900509-TR-001-R0 (UUT18)	Pacific Earthquake Engineering Research Center (PEER)	10-Dec. 2019	Yes	2.00 2.50	1.0 0.0	1.3 1.0	3.5 1.0	1.5
3E	EBC48VRT2U (rack mounted - rigid 4-Post)	1900509-TR-001-R0 (UUT19)	Pacific Earthquake Engineering Research Center (PEER)	10-Dec. 2019	Yes	2.00 2.50	1.0 0.0	1.3 1.0	3.5 1.0	1.5
3F	EBC192VRT3U (rack mounted - rigid 4-Post)	1900509-TR-001-R0 (UUT21)	Pacific Earthquake Engineering Research Center (PEER)	10-Dec. 2019	Yes	2.00 2.50	1.0 0.0	1.3 1.0	3.5 1.0	1.5
3G	EBC288VRT4U (rack mounted - rigid 4-Post)	1900509-TR-001-R0 (UUT22)	Pacific Earthquake Engineering Research Center (PEER)	10-Dec. 2019	Yes	2.00 2.50	1.0 0.0	1.3 1.0	3.5 1.0	1.5
4	Rack Configuration 4	15444, Rev. 2	Environmental Testing Lab (ETL)	30-Sept. to 1-Oct. 2019	Yes	2.00 2.50	1.0 0.0	1.3 1.0	3.5 1.0	1.5

Notes:

1900509-CR-001-R5



Notes:

UNIT UNDER TEST (UUT) SUMMARY SHEET

1900509-CR-001-R5



Manufacturer:	Vertiv Corporation	UUT 1
Product Type:	Uninterruptible Power Supply (UPS)	
Model Line:	GXT-5 Two Post Installation	
Model Number:	SB85219084	
Serial Number:	n/a	
Test Report:		15444, Rev. 2

UUT Properties						
Weight (lbs.)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
1,102	15.0	19.0	84.0	5.06	4.16	>33.33

UUT Highest Passed Seismic Run Information										
Building Code	Test Criteria	S _{DS} (g)	z/h	R _μ	H _f	I _p	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)
CBC 2025	ICC-ES AC 156-24	2.00	1.0	1.3	3.5	1.5	3.20	2.15	1.67	0.67
		2.50	0.0	1.0	1.0					

Product Construction Summary: Test Mounting Details:

Welded Carbon Steel

Options/Subcomponent Summary:

Description	Mfr.	Part Number
GXT-5 UPS (2000K Low Voltage)	Vertiv	2000LVRT2UXL
GXT-5 UPS (10K Medium Voltage)	Vertiv	10KMVRT6UXLN
GXT-5 UPS (6K High Voltage)	Vertiv	6KL630RT5UXLN
GXT-5 UPS (10K High Voltage)	Vertiv	10KHVRT5UXLN
GXT-5 External Battery Cabinet (48V)	Vertiv	EBC48VRT2U
GXT-5 External Battery Cabinet (192V)	Vertiv	EBC192VRT3U
GXT-5 External Battery Cabinet (288V)	Vertiv	EBC288VRT4U

Test Mounting Details:





UUT1a
 UUT1b
 UUT1c
 UUT1d
 UUT1e
 UUT1f
 UUT1g

UUT1 configuration rack was base mounted - rigid to the fixture using four (4) 5/8" - 11 Grade 8 Hex Bolts with lock washers and square washer.

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

UNIT UNDER TEST (UUT) SUMMARY SHEET

1900509-CR-001-R5



Manufacturer: Vertiv Corporation
Product Type: Uninterruptible Power Supply (UPS)
Model Line: GXT-5 Two Post Installation
Model Number: SB85219084
Serial Number: n/a

Test Report: 15444, Rev. 2

UUT 1

Rack Mounted Summary:

Rack Configuration 1: 2 Post Rack		
Position on Rack		Inches from Floor
43	UUT 1a	80.25
42	GXT5-2000LVRT	78.5
41	UUT 1e	76.75
40	EBC48VRT2U	75
39		73.25
38	UUT 1c	71.5
37	GXT5-6KL630RT	69.75
36		68
35		66.25
34	Empty	64.5
33	UUT 1f	62.75
32	EBC192VRT3U	61
31		59.25
30		57.5
29	UUT 1d	55.75
28	GXT5-10KHVRT	54
27		52.25
26		50.5
25		48.75
24	Empty	47
23		45.25
22		43.5
21	UUT 1b	41.75
20	GXT5-10KMVRT	40
19		38.25
18		36.5
17		34.75
16	Empty	33
15		31.25
14	UUT 1g	29.5
13	EBC288VRT4U	27.75
12		26
11		24.25
10		22.5
9		20.75
8		19
7		17.25
6		15.5
5		13.75
4		12
3		10.25
2		8.5
1		6.75
5" Base		

Eaton 2 Post Rack Mounting Summary

Rack Configuration Total Weight (including rack): **1,102 lbs.**

Max Rack CG: **51"**



UNIT UNDER TEST (UUT) SUMMARY SHEET

1900509-CR-001-R5



Manufacturer:	Vertiv Corporation	UUT 1A
Product Type:	Uninterruptible Power Supply (UPS)	
Model Line:	GXT-5 Two Post Installation	
Model Number:	2000LVRT2UXL	
Serial Number:	1909600241AFFB3	
Test Report: 15444, Rev. 2 (UUT1)		

UUT Properties						
Weight (lbs.)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
51	18.6	16.9	3.3	5.06	4.16	>33.33

UUT Highest Passed Seismic Run Information										
Building Code	Test Criteria	S _{DS} (g)	z/h	R _μ	H _f	I _p	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)
CBC 2025	ICC-ES AC 156-24	2.00	1.0	1.3	3.5	1.5	3.20	2.15	1.67	0.67
		2.50	0.0	1.0	1.0					

Product Construction Summary:	Test Mounting Details:
Carbon Steel Frame and Carbon Steel Case	

Options/Subcomponent Summary:			
Description	Mfr.	Part Number	
Breaker	KUOYUH	88-20-P1B14-P100SB	

Test Mounting Details:	UUT1A was rack mounted - rigid to a 2-Post Seismic Rack (PN: SB85219084). UUT1A was attached to the 2-Post rack with a 2U TELECOMRKIT. Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test. Contents were included in testing per operating conditions.
	

UNIT UNDER TEST (UUT) SUMMARY SHEET

1900509-CR-001-R5



Manufacturer: Vertiv Corporation
Product Type: Uninterruptible Power Supply (UPS)
Model Line: GXT-5 Two Post Installation
Model Number: 2000LVRT2UXL
Serial Number: 1909600241AFFB3

UUT 1A

Test Report: 15444, Rev. 2 (UUT1)

Rack Mounted Summary:

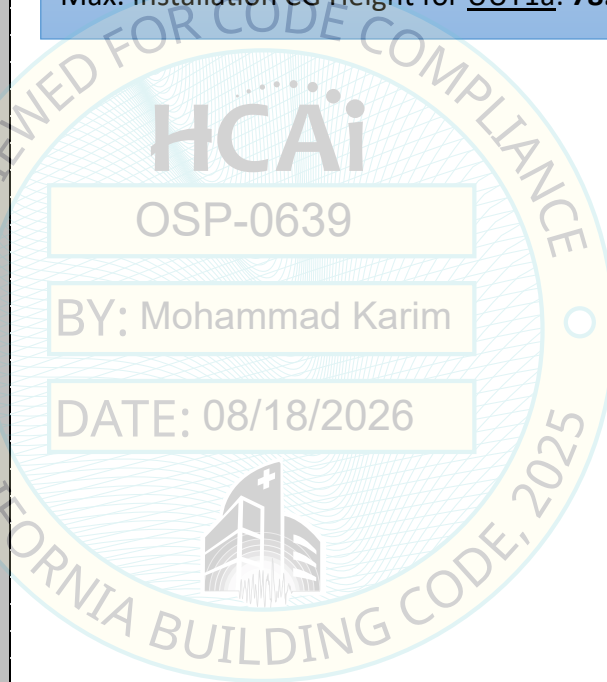
Rack Configuration 1: 2 Post Rack		
Position on Rack		Inches from Floor
43	UUT 1a	80.25
42	GXT5-2000LVRT	78.5
41	UUT 1e	76.75
40	EBC48VRT2U	75
39		73.25
38	UUT 1c	71.5
37	GXT5-6KL630RT	69.75
36		68
35		66.25
34	Empty	64.5
33		62.75
32	UUT 1f	61
31	EBC192VRT3U	59.25
30		57.5
29	UUT 1d	55.75
28	GXT5-10KHVRT	54
27		52.25
26		50.5
25		48.75
24	Empty	47
23		45.25
22		43.5
21	UUT 1b	41.75
20	GXT5-10KMVRT	40
19		38.25
18		36.5
17		34.75
16	Empty	33
15		31.25
14	UUT 1g	29.5
13	EBC288VRT4U	27.75
12		26
11		24.25
10		22.5
9		20.75
8		19
7		17.25
6	Empty	15.5
5		13.75
4		12
3		10.25
2		8.5
1		6.75
5" Base		

Eaton 2 Post Rack Mounting Summary

Rack Configuration Total Weight (including rack): **1,102 lbs.**

Max Rack CG: **51"**

Max. Installation CG Height for UUT1a: **78.50"**



UNIT UNDER TEST (UUT) SUMMARY SHEET

1900509-CR-001-R5



Manufacturer:	Vertiv Corporation	UUT 1B
Product Type:	Uninterruptible Power Supply (UPS)	
Model Line:	GXT-5 Two Post Installation	
Model Number:	10KMVRT6UXLN	
Serial Number:	1912700079BWFL3	Test Report: 15444, Rev. 2 (UUT4)

UUT Properties						
Weight (lbs.)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
233	26.8	16.9	10.3	5.06	4.16	>33.33

UUT Highest Passed Seismic Run Information										
Building Code	Test Criteria	S _{DS} (g)	z/h	R _μ	H _f	I _p	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)
CBC 2025	ICC-ES AC 156-24	2.00	1.0	1.3	3.5	1.5	3.20	2.15	1.67	0.67
		2.50	0.0	1.0	1.0					

Product Construction Summary:	Test Mounting Details:
Carbon Steel Frame and Carbon Steel Case	

Options/Subcomponent Summary:			
Description	Mfr.	Part Number	
Liebert Power Distribution Boxes	Vertiv	PD2-106	

Test Mounting Details:	UUT1B was rack mounted - rigid to a 2-Post Seismic Rack (PN: SB85219084). UUT1B was attached to the 2-Post rack with a 4U/6U TELECOMRKIT. Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test. Contents were included in testing per operating conditions.
	

UNIT UNDER TEST (UUT) SUMMARY SHEET

1900509-CR-001-R5



Manufacturer: Vertiv Corporation
Product Type: Uninterruptible Power Supply (UPS)
Model Line: GXT-5 Two Post Installation
Model Number: 10KMVRT6UXLN
Serial Number: 1912700079BWFL3

UUT 1B

Test Report: 15444, Rev. 2 (UUT4)

Rack Mounted Summary:

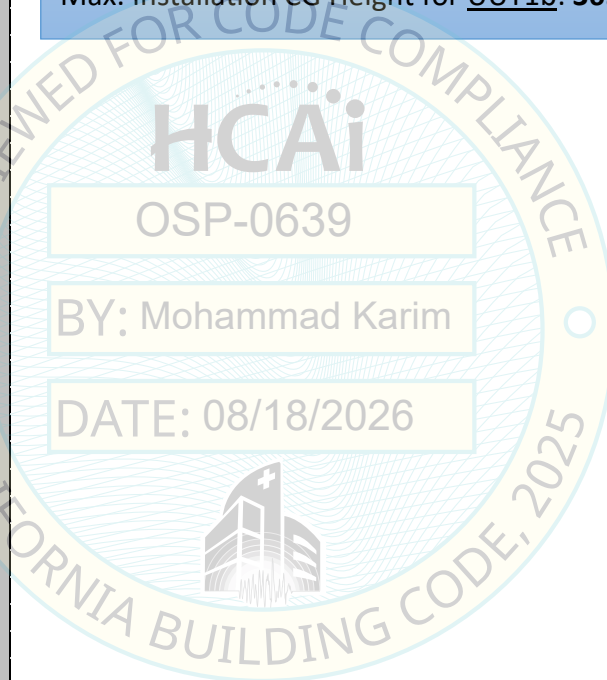
Rack Configuration 1: 2 Post Rack		
Position on Rack		Inches from Floor
43	UUT 1a	80.25
42	GXT5-2000LVRT	78.5
41	UUT 1e	76.75
40	EBC48VRT2U	75
39		73.25
38	UUT 1c	71.5
37	GXT5-6KL630RT	69.75
36		68
35		66.25
34	Empty	64.5
33		62.75
32	UUT 1f	61
31	EBC192VRT3U	59.25
30		57.5
29	UUT 1d	55.75
28	GXT5-10KHVRT	54
27		52.25
26		50.5
25		48.75
24	Empty	47
23		45.25
22		43.5
21	UUT 1b	41.75
20	GXT5-10KMVRT	40
19		38.25
18		36.5
17		34.75
16	Empty	33
15		31.25
14	UUT 1g	29.5
13	EBC288VRT4U	27.75
12		26
11		24.25
10		22.5
9		20.75
8		19
7		17.25
6	Empty	15.5
5		13.75
4		12
3		10.25
2		8.5
1		6.75
5" Base		

Eaton 2 Post Rack Mounting Summary

Rack Configuration Total Weight (including rack): **1,102 lbs.**

Max Rack CG: **51"**

Max. Installation CG Height for UUT1b: **36.50"**



UNIT UNDER TEST (UUT) SUMMARY SHEET

1900509-CR-001-R5



Manufacturer:	Vertiv Corporation	UUT 1C
Product Type:	Uninterruptible Power Supply (UPS)	
Model Line:	GXT-5 Two Post Installation	
Model Number:	6KL630RT5UXLN	
Serial Number:	1900700612BWGC3	
Test Report: 15444, Rev. 2 (UUT6)		

UUT Properties						
Weight (lbs.)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
158	24.9	16.9	8.5	5.06	4.16	>33.33

UUT Highest Passed Seismic Run Information										
Building Code	Test Criteria	S _{DS} (g)	z/h	R _μ	H _f	I _p	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)
CBC 2025	ICC-ES AC 156-24	2.00	1.0	1.3	3.5	1.5	3.20	2.15	1.67	0.67
		2.50	0.0	1.0	1.0					

Product Construction Summary:	Test Mounting Details:
Carbon Steel Frame and Carbon Steel Case	

Options/Subcomponent Summary:		
Description	Mfr.	Part Number
Breaker	KUOYUH	88-15-P1B14-P100SB
	Shanghai Liangxin Electrical CO LTD	NDB2-63C50/2P
Liebert Power Distribution Boxes	Vertiv	PD5-L630

Test Mounting Details:	
	UUT1C was rack mounted - rigid to a 2-Post Seismic Rack (PN: SB85219084). UUT1C was attached to the 2-Post rack with a 4U/6U TELECOMRKIT. Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test. Contents were included in testing per operating conditions.



UNIT UNDER TEST (UUT) SUMMARY SHEET

1900509-CR-001-R5



Manufacturer: Vertiv Corporation
Product Type: Uninterruptible Power Supply (UPS)
Model Line: GXT-5 Two Post Installation
Model Number: 6KL630RT5UXLN
Serial Number: 1900700612BWGC3

UUT 1C

Test Report: 15444, Rev. 2 (UUT6)

Rack Mounted Summary:

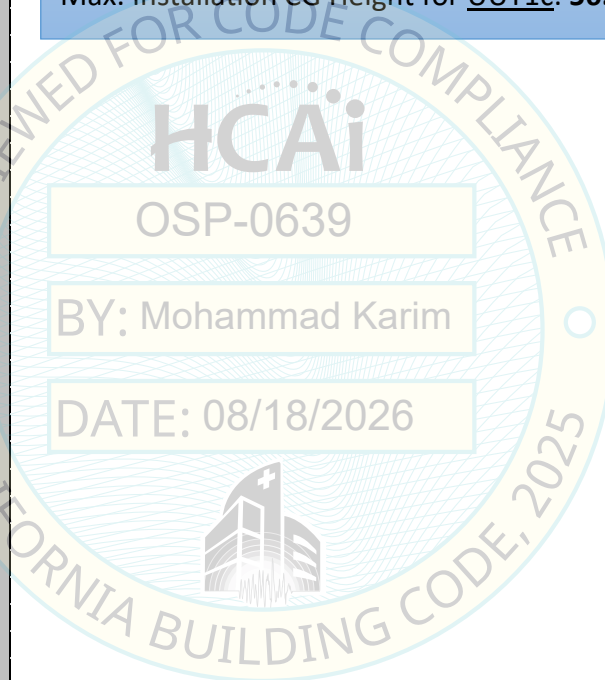
Rack Configuration 1: 2 Post Rack		
Position on Rack		Inches from Floor
43	UUT 1a	80.25
42	GXT5-2000LVRT	78.5
41	UUT 1e	76.75
40	EBC48VRT2U	75
39		73.25
38	UUT 1c	71.5
37	GXT5-6KL630RT	69.75
36		68
35		66.25
34	Empty	64.5
33		62.75
32	UUT 1f	61
31	EBC192VRT3U	59.25
30		57.5
29	UUT 1d	55.75
28	GXT5-10KHVRT	54
27		52.25
26		50.5
25		48.75
24	Empty	47
23		45.25
22		43.5
21	UUT 1b	41.75
20	GXT5-10KMVRT	40
19		38.25
18		36.5
17		34.75
16	Empty	33
15		31.25
14	UUT 1g	29.5
13	EBC288VRT4U	27.75
12		26
11		24.25
10		22.5
9		20.75
8		19
7		17.25
6	Empty	15.5
5		13.75
4		12
3		10.25
2		8.5
1		6.75
5" Base		

Eaton 2 Post Rack Mounting Summary

Rack Configuration Total Weight (including rack): **1,102 lbs.**

Max Rack CG: **51"**

Max. Installation CG Height for UUT1c: **56.25"**



1900509-CR-001-R5



Manufacturer:	Vertiv Corporation
Product Type:	Uninterruptible Power Supply (UPS)
Model Line:	GXT-5 Two Post Installation
Model Number:	10KHVRT5UXLN
Serial Number:	1835300275BWGG3

Weight (lbs.)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
162	24.9	16.9	8.5	5.06	4.16	>33.33

Building Code	Test Criteria	S_{DS} (g)	z/h	R_{μ}	H_f	I_p	A_{FLX-H} (g)	A_{RIG-H} (g)	A_{FLX-V} (g)	A_{RIG-V} (g)
CBC 2025	ICC-ES AC 156-24	2.00	1.0	1.3	3.5	1.5	3.20	2.15	1.67	0.67
		2.50	0.0	1.0	1.0					

Test Mounting Details:

[illegible]

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

UNIT UNDER TEST (UUT) SUMMARY SHEET

1900509-CR-001-R5



Manufacturer: Vertiv Corporation
Product Type: Uninterruptible Power Supply (UPS)
Model Line: GXT-5 Two Post Installation
Model Number: 10KHVRT5UXLN
Serial Number: 1835300275BWGG3

UUT 1D

Test Report: 15444, Rev. 2 (UUT7)

Rack Mounted Summary:

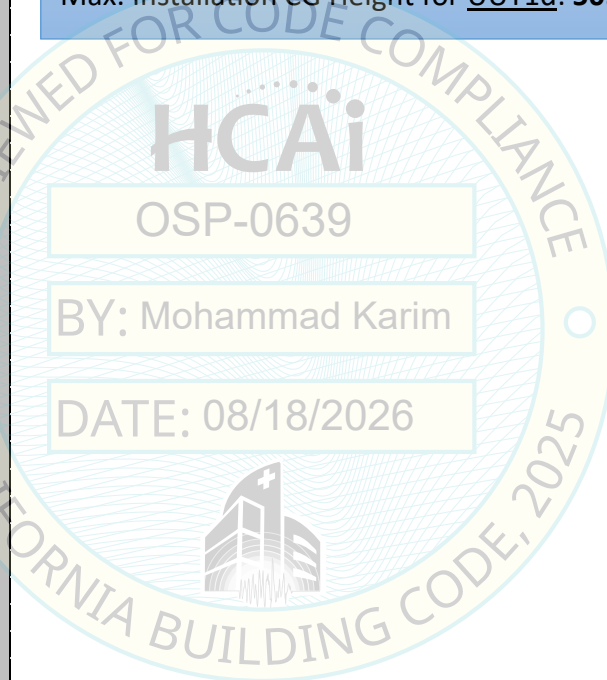
Rack Configuration 1: <u>2 Post Rack</u>		
Position on Rack		Inches from Floor
43	UUT 1a	80.25
42	GXT5-2000LVRT	78.5
41	UUT 1e	76.75
40	EBC48VRT2U	75
39		73.25
38	UUT 1c	71.5
37	GXT5-6KL630RT	69.75
36		68
35		66.25
34	Empty	64.5
33		62.75
32	UUT 1f	61
31	EBC192VRT3U	59.25
30		57.5
29	UUT 1d	55.75
28	GXT5-10KHVRT	54
27		52.25
26		50.5
25		48.75
24	Empty	47
23		45.25
22		43.5
21	UUT 1b	41.75
20	GXT5-10KMVRT	40
19		38.25
18		36.5
17		34.75
16	Empty	33
15		31.25
14	UUT 1g	29.5
13	EBC288VRT4U	27.75
12		26
11		24.25
10		22.5
9		20.75
8		19
7		17.25
6	Empty	15.5
5		13.75
4		12
3		10.25
2		8.5
1		6.75
5" Base		

Eaton 2 Post Rack Mounting Summary

Rack Configuration Total Weight (including rack): **1,102 lbs.**

Max Rack CG: **51"**

Max. Installation CG Height for UUT1d: **50.50"**



UNIT UNDER TEST (UUT) SUMMARY SHEET

1900509-CR-001-R5



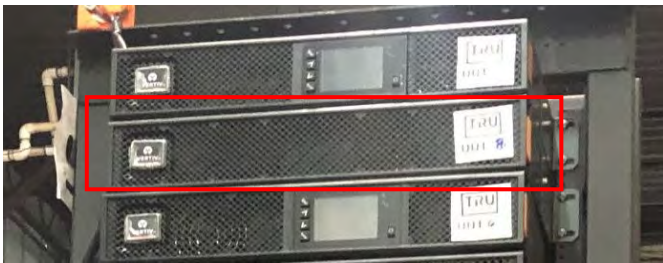
Manufacturer:	Vertiv Corporation	UUT 1E
Product Type:	Uninterruptible Power Supply (UPS)	
Model Line:	GXT-5 Two Post Installation	
Model Number:	EBC48VRT2U	
Serial Number:	1917500040AFM23	
Test Report: 15444, Rev. 2 (UUT8)		

UUT Properties						
Weight (lbs.)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
66	18.6	16.9	3.3	5.06	4.16	>33.33

UUT Highest Passed Seismic Run Information										
Building Code	Test Criteria	S _{DS} (g)	z/h	R _μ	H _f	I _p	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)
CBC 2025	ICC-ES AC 156-24	2.00	1.0	1.3	3.5	1.5	3.20	2.15	1.67	0.67
		2.50	0.0	1.0	1.0					

Product Construction Summary:	Test Mounting Details:
Carbon Steel Frame and Carbon Steel Case	

Options/Subcomponent Summary:			
Description	Mfr.	Part Number	
Battery	LEOCH	DJW12-9.0	

Test Mounting Details:	UUT1E was rack mounted - rigid to a 2-Post Seismic Rack (PN: SB85219084). UUT1E was attached to the 2-Post rack with a 2U TELECOMRKIT. Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test. Contents were included in testing per operating conditions.
	

UNIT UNDER TEST (UUT) SUMMARY SHEET

1900509-CR-001-R5



Manufacturer: Vertiv Corporation
Product Type: Uninterruptible Power Supply (UPS)
Model Line: GXT-5 Two Post Installation
Model Number: EBC48VRT2U
Serial Number: 1917500040AFM23

UUT 1E

Test Report: 15444, Rev. 2 (UUT8)

Rack Mounted Summary:

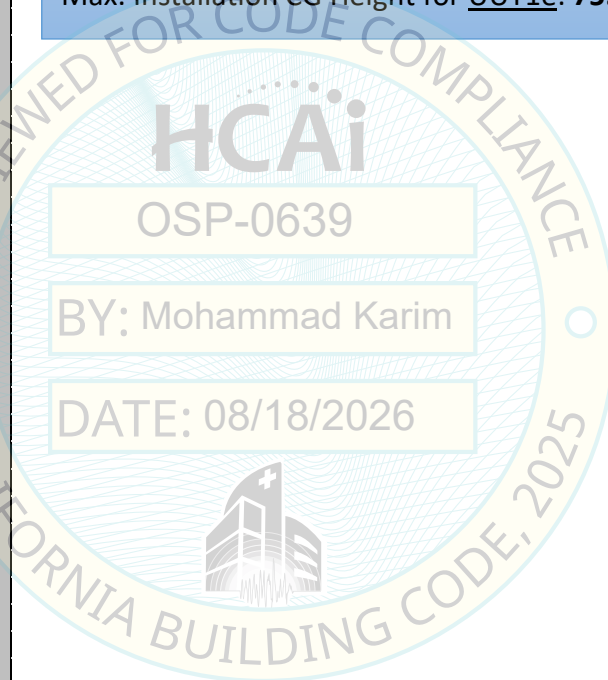
Rack Configuration 1: 2 Post Rack		
Position on Rack		Inches from Floor
43	UUT 1a	80.25
42	GXT5-2000LVRT	78.5
41	UUT 1e	76.75
40	EBC48VRT2U	75
39		73.25
38	UUT 1c	71.5
37	GXT5-6KL630RT	69.75
36		68
35		66.25
34	Empty	64.5
33		62.75
32	UUT 1f	61
31	EBC192VRT3U	59.25
30		57.5
29	UUT 1d	55.75
28	GXT5-10KHVRT	54
27		52.25
26		50.5
25		48.75
24	Empty	47
23		45.25
22		43.5
21	UUT 1b	41.75
20	GXT5-10KMVRT	40
19		38.25
18		36.5
17		34.75
16	Empty	33
15		31.25
14	UUT 1g	29.5
13	EBC288VRT4U	27.75
12		26
11		24.25
10		22.5
9		20.75
8		19
7		17.25
6	Empty	15.5
5		13.75
4		12
3		10.25
2		8.5
1		6.75
5" Base		

Eaton 2 Post Rack Mounting Summary

Rack Configuration Total Weight (including rack): **1,102 lbs.**

Max Rack CG: **51"**

Max. Installation CG Height for UUT1e: **75.00"**



UNIT UNDER TEST (UUT) SUMMARY SHEET

1900509-CR-001-R5



Manufacturer:	Vertiv Corporation	UUT 1F
Product Type:	Uninterruptible Power Supply (UPS)	
Model Line:	GXT-5 Two Post Installation	
Model Number:	EBC192VRT3U	
Serial Number:	1919800429BWK93	
Test Report:		15444, Rev. 2 (UUT10)

UUT Properties						
Weight (lbs.)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
137	24.8	16.9	5.1	5.06	4.16	>33.33

UUT Highest Passed Seismic Run Information										
Building Code	Test Criteria	S _{DS} (g)	z/h	R _μ	H _f	I _p	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)
CBC 2025	ICC-ES AC 156-24	2.00	1.0	1.3	3.5	1.5	3.20	2.15	1.67	0.67
		2.50	0.0	1.0	1.0					

Product Construction Summary:	Test Mounting Details:
Carbon Steel Frame and Carbon Steel Case	

Options/Subcomponent Summary:			
Description	Mfr.	Part Number	
Battery	LEOCH	DJW12-9.0	

Test Mounting Details:	
	UUT1F was rack mounted - rigid to a 2-Post Seismic Rack (PN: SB85219084). UUT1F was attached to the 2-Post rack with a 4U/6U TELECOMRKIT. Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test. Contents were included in testing per operating conditions.

UNIT UNDER TEST (UUT) SUMMARY SHEET

1900509-CR-001-R5



Manufacturer: Vertiv Corporation
Product Type: Uninterruptible Power Supply (UPS)
Model Line: GXT-5 Two Post Installation
Model Number: EBC192VRT3U
Serial Number: 1919800429BWK93

Test Report: 15444, Rev. 2 (UUT10)

UUT 1F

Rack Mounted Summary:

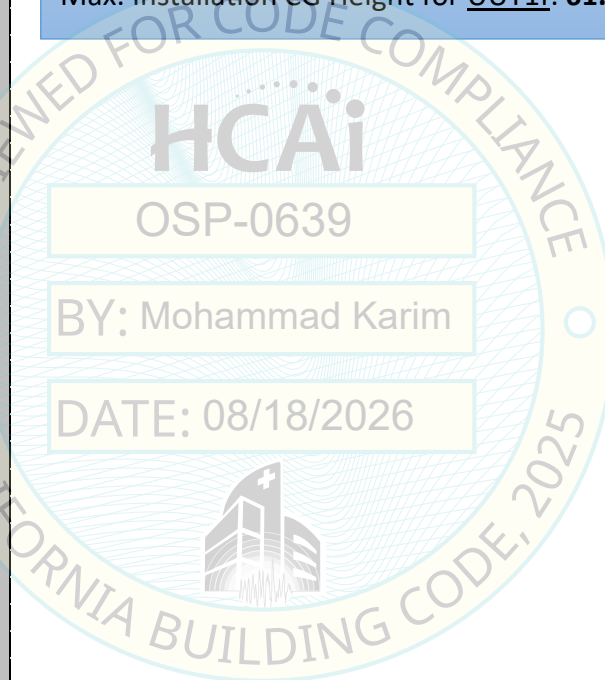
Rack Configuration 1: 2 Post Rack		
Position on Rack		Inches from Floor
43	UUT 1a	80.25
42	GXT5-2000LVRT	78.5
41	UUT 1e	76.75
40	EBC48VRT2U	75
39		73.25
38	UUT 1c	71.5
37	GXT5-6KL630RT	69.75
36		68
35		66.25
34	Empty	64.5
33	UUT 1f	62.75
32	EBC192VRT3U	61
31		59.25
30		57.5
29	UUT 1d	55.75
28	GXT5-10KHVRT	54
27		52.25
26		50.5
25		48.75
24	Empty	47
23		45.25
22		43.5
21	UUT 1b	41.75
20	GXT5-10KMVRT	40
19		38.25
18		36.5
17		34.75
16	Empty	33
15		31.25
14	UUT 1g	29.5
13	EBC288VRT4U	27.75
12		26
11		24.25
10		22.5
9		20.75
8		19
7		17.25
6	Empty	15.5
5		13.75
4		12
3		10.25
2		8.5
1		6.75
5" Base		

Eaton 2 Post Rack Mounting Summary

Rack Configuration Total Weight (including rack): **1,102 lbs.**

Max Rack CG: **51"**

Max. Installation CG Height for UUT1f: **61.00"**



1900509-CR-001-R5



UNIT UNDER TEST (UUT) SUMMARY SHEET

1900509-CR-001-R5



Manufacturer: Vertiv Corporation
Product Type: Uninterruptible Power Supply (UPS)
Model Line: GXT-5 Two Post Installation
Model Number: EBC288VRT4U
Serial Number: 1917300284BWK83

UUT 1G

Test Report: 15444, Rev. 2 (UUT11)

Rack Mounted Summary:

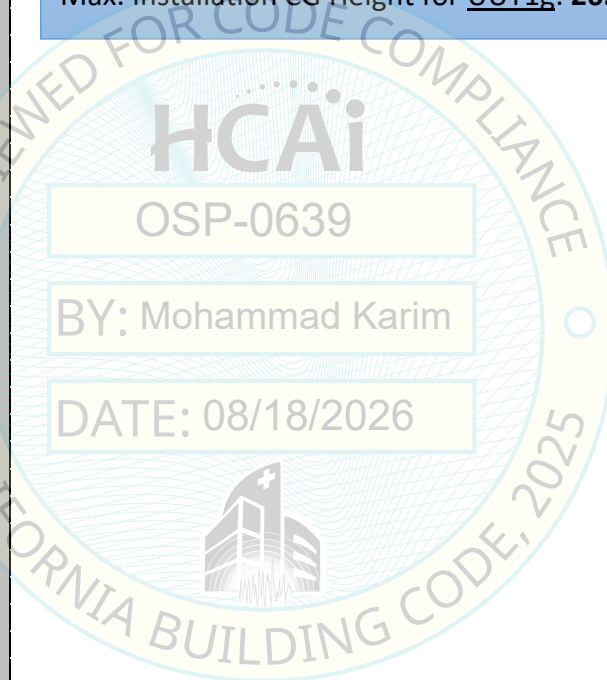
Rack Configuration 1: 2 Post Rack		
Position on Rack		Inches from Floor
43	UUT 1a	80.25
42	GXT5-2000LVRT	78.5
41	UUT 1e	76.75
40	EBC48VRT2U	75
39		73.25
38	UUT 1c	71.5
37	GXT5-6KL630RT	69.75
36		68
35		66.25
34	Empty	64.5
33	UUT 1f	62.75
32	EBC192VRT3U	61
31		59.25
30		57.5
29	UUT 1d	55.75
28	GXT5-10KHVRT	54
27		52.25
26		50.5
25		48.75
24	Empty	47
23		45.25
22		43.5
21	UUT 1b	41.75
20	GXT5-10KMVRT	40
19		38.25
18		36.5
17		34.75
16	Empty	33
15		31.25
14	UUT 1g	29.5
13	EBC288VRT4U	27.75
12		26
11		24.25
10		22.5
9		20.75
8		19
7		17.25
6	Empty	15.5
5		13.75
4		12
3		10.25
2		8.5
1		6.75
5" Base		

Eaton 2 Post Rack Mounting Summary

Rack Configuration Total Weight (including rack): **1,102 lbs.**

Max Rack CG: **51"**

Max. Installation CG Height for UUT1g: **26.00"**



UNIT UNDER TEST (UUT) SUMMARY SHEET

1900509-CR-001-R5



Manufacturer:	Vertiv Corporation	UUT 2
Product Type:	Uninterruptible Power Supply (UPS)	
Model Line:	GXT-5 Two Post Installation	
Model Number:	SB85219084	
Serial Number:	n/a	Test Report: 15444, Rev. 2

UUT Properties						
Weight (lbs.)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
743	15.0	19.0	84.0	6.05	4.55	31.26

UUT Highest Passed Seismic Run Information										
Building Code	Test Criteria	S _{DS} (g)	z/h	R _μ	H _f	I _p	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)
CBC 2025	ICC-ES AC 156-24	2.00	1.0	1.3	3.5	1.5	3.20	2.15	1.67	0.67
		2.50	0.0	1.0	1.0					

Product Construction Summary:	Test Mounting Details:
Welded Carbon Steel	

Options/Subcomponent Summary:			 UUT2a UUT2b UUT2c UUT2d
Description	Mfr.	Part Number	
GXT-5 UPS (3000K Low Voltage)	Vertiv	3000LVRT2UXL	
GXT-5 UPS (6000K Medium Voltage)	Vertiv	6000MVRT4UXLN	
GXT-5 UPS (3K High Voltage)	Vertiv	3KL620RT2UXL	
GXT-5 External Battery Cabinet (72V)	Vertiv	EBC72VRT2U	

Test Mounting Details:	
	UUT2 configuration rack was base mounted - rigid to the fixture using four (4) 5/8" - 11 Grade 8 Hex Bolts with lock washers and square washer. 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

UNIT UNDER TEST (UUT) SUMMARY SHEET

1900509-CR-001-R5



Manufacturer: Vertiv Corporation
Product Type: Uninterruptible Power Supply (UPS)
Model Line: GXT-5 Two Post Installation
Model Number: SB85219084
Serial Number: n/a

Test Report: 15444, Rev. 2

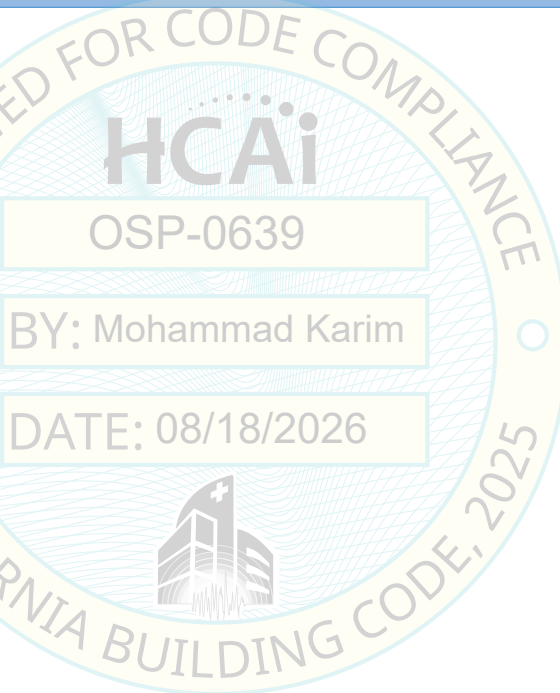
UUT 2

Rack Mounted Summary:

Rack Configuration 2: 2 Post Rack		
Position on Rack		Inches from Floor
43	UUT 2a	80.25
42	GXT5-3000LVRT	78.5
41	UUT 2d	76.75
40	EBC72VRT2U	75
39		73.25
38	Empty	71.5
37	UUT 2c	69.75
36	GXT5-3KL620RT	68
35		66.25
34	Empty	64.5
33		62.75
32	UUT 2b	61
31	GXT-6000MVRT4UXLV	59.25
30		57.5
29		55.75
28		54
27		52.25
26	Empty	50.5
25		48.75
24		47
23		45.25
22		43.5
21	Dummy Weight 150	41.75
20		40
19	Empty	38.25
18		36.5
17	Dummy Weight 150	34.75
16		33
15		31.25
14		29.5
13		27.75
12		26
11		24.25
10		22.5
9		20.75
8	Empty	19
7		17.25
6		15.5
5		13.75
4		12
3		10.25
2		8.5
1		6.75
5" Base		

Eaton 2 Post Rack Mounting Summary

Rack Configuration Total Weight (including rack): **743 lbs.**
 Max Rack CG: **52.6"**



1900509-CR-001-R5



UNIT UNDER TEST (UUT) SUMMARY SHEET

1900509-CR-001-R5



Manufacturer: Vertiv Corporation
Product Type: Uninterruptible Power Supply (UPS)
Model Line: GXT-5 Two Post Installation
Model Number: 3000LVRT2UXL
Serial Number: 1908100034AFFE3

UUT 2A

Test Report: 15444, Rev. 2 (UUT2)

Rack Mounted Summary:

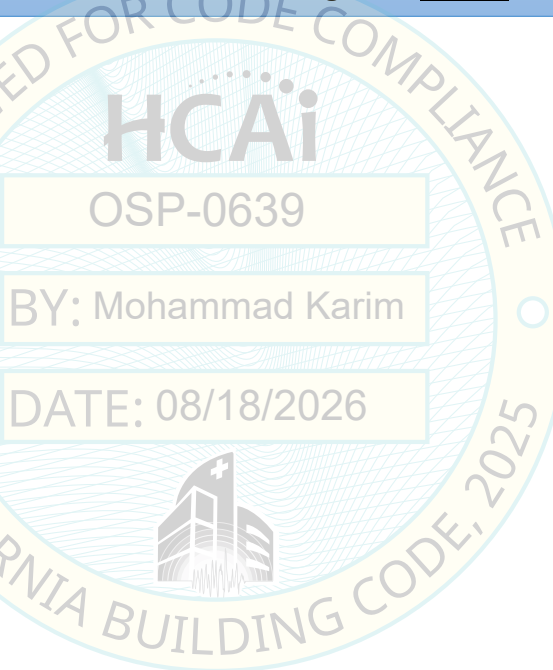
Rack Configuration 2: <u>2 Post Rack</u>		
Position on Rack		Inches from Floor
43	UUT 2a	80.25
42	GXT5-3000LVRT	78.5
41	UUT 2d	76.75
40	EBC72VRT2U	75
39		73.25
38	Empty	71.5
37	UUT 2c	69.75
36	GXT5-3KL620RT	68
35		66.25
34	Empty	64.5
33		62.75
32	UUT 2b	61
31	GXT-6000MVRT4UXLV	59.25
30		57.5
29		55.75
28		54
27		52.25
26	Empty	50.5
25		48.75
24		47
23		45.25
22	Dummy Weight 150	43.5
21		41.75
20	Empty	40
19		38.25
18	Dummy Weight 150	36.5
17		34.75
16		33
15		31.25
14		29.5
13		27.75
12		26
11		24.25
10		22.5
9	Empty	20.75
8		19
7		17.25
6		15.5
5		13.75
4		12
3		10.25
2		8.5
1		6.75
5" Base		

Eaton 2 Post Rack Mounting Summary

Rack Configuration Total Weight (including rack): **743 lbs.**

Max Rack CG: **52.6"**

Max. Installation CG Height for UUT2a: **78.50"**



1900509-CR-001-R5



UNIT UNDER TEST (UUT) SUMMARY SHEET

1900509-CR-001-R5



Manufacturer: Vertiv Corporation
Product Type: Uninterruptible Power Supply (UPS)
Model Line: GXT-5 Two Post Installation
Model Number: 6000MVRT4UXLN
Serial Number: 1919200086BWKf3

Test Report: 15444, Rev. 2 (UUT3)

UUT 2B

Rack Mounted Summary:

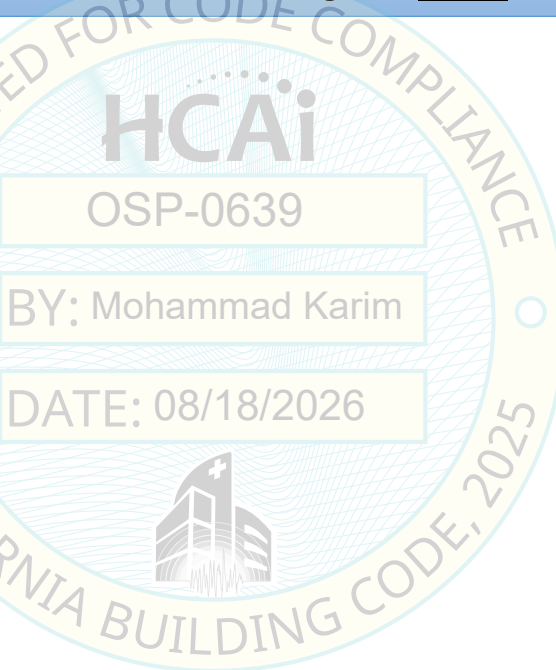
Rack Configuration 2: 2 Post Rack		
Position on Rack		Inches from Floor
43	UUT 2a	80.25
42	GXT5-3000LVRT	78.5
41	UUT 2d	76.75
40	EBC72VRT2U	75
39		73.25
38	Empty	71.5
37	UUT 2c	69.75
36	GXT5-3KL620RT	68
35		66.25
34	Empty	64.5
33		62.75
32	UUT 2b	61
31	GXT-6000MVRT4UXLV	59.25
30		57.5
29		55.75
28		54
27		52.25
26	Empty	50.5
25		48.75
24		47
23		45.25
22		43.5
21	Dummy Weight 150	41.75
20		40
19	Empty	38.25
18		36.5
17	Dummy Weight 150	34.75
16		33
15		31.25
14		29.5
13		27.75
12		26
11		24.25
10		22.5
9		20.75
8	Empty	19
7		17.25
6		15.5
5		13.75
4		12
3		10.25
2		8.5
1		6.75
5" Base		

Eaton 2 Post Rack Mounting Summary

Rack Configuration Total Weight (including rack): **743 lbs.**

Max Rack CG: **52.6"**

Max. Installation CG Height for UUT2b: **57.50"**



UNIT UNDER TEST (UUT) SUMMARY SHEET

1900509-CR-001-R5



Manufacturer:	Vertiv Corporation	UUT 2C
Product Type:	Uninterruptible Power Supply (UPS)	
Model Line:	GXT-5 Two Post Installation	
Model Number:	3KL620RT2UXL	
Serial Number:	1916900448AFG63	
Test Report: 15444, Rev. 2 (UUT5)		

UUT Properties						
Weight (lbs.)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
65	21.3	16.9	3.3	6.05	4.55	31.26

UUT Highest Passed Seismic Run Information										
Building Code	Test Criteria	S _{DS} (g)	z/h	R _μ	H _f	I _p	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)
CBC 2025	ICC-ES AC 156-24	2.00	1.0	1.3	3.5	1.5	3.20	2.15	1.67	0.67
		2.50	0.0	1.0	1.0					

Product Construction Summary: Test Mounting Details:

Carbon Steel Frame and Carbon Steel Case

Options/Subcomponent Summary:

Description	Mfr.	Part Number
Breaker	KUOYUH	88-15-P1B14-P100SB
		88-20-P1B14-P100SB

Test Mounting Details:



UUT2C was rack mounted - rigid to a 2-Post Seismic Rack (PN: SB85219084). UUT2C was attached to the 2-Post rack with a 2U TELECOMRKIT. Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test. Contents were included in testing per operating conditions.

UNIT UNDER TEST (UUT) SUMMARY SHEET

1900509-CR-001-R5



Manufacturer: Vertiv Corporation
Product Type: Uninterruptible Power Supply (UPS)
Model Line: GXT-5 Two Post Installation
Model Number: 3KL620RT2UXL
Serial Number: 1916900448AFG63

UUT 2C

Test Report: 15444, Rev. 2 (UUT5)

Rack Mounted Summary:

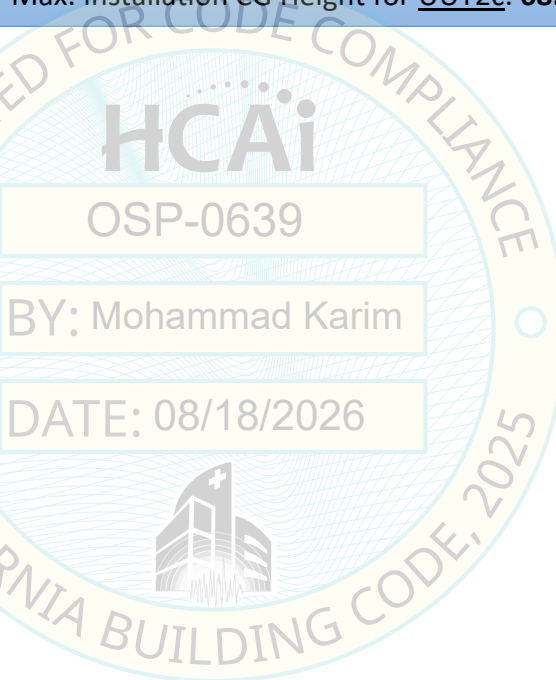
Rack Configuration 2: <u>2 Post Rack</u>		
Position on Rack		Inches from Floor
43	UUT 2a	80.25
42	GXT5-3000LVRT	78.5
41	UUT 2d	76.75
40	EBC72VRT2U	75
39		73.25
38	Empty	71.5
37	UUT 2c	69.75
36	GXT5-3KL620RT	68
35		66.25
34	Empty	64.5
33		62.75
32	UUT 2b	61
31	GXT-6000MVRT4UXLV	59.25
30		57.5
29		55.75
28		54
27		52.25
26	Empty	50.5
25		48.75
24		47
23		45.25
22	Dummy Weight 150	43.5
21		41.75
20	Empty	40
19		38.25
18	Dummy Weight 150	36.5
17		34.75
16		33
15		31.25
14		29.5
13		27.75
12		26
11		24.25
10		22.5
9	Empty	20.75
8		19
7		17.25
6		15.5
5		13.75
4		12
3		10.25
2		8.5
1		6.75
5" Base		

Eaton 2 Post Rack Mounting Summary

Rack Configuration Total Weight (including rack): **743 lbs.**

Max Rack CG: **52.6"**

Max. Installation CG Height for UUT2c: **68.00"**



UNIT UNDER TEST (UUT) SUMMARY SHEET

1900509-CR-001-R5



Manufacturer: Vertiv Corporation
Product Type: Uninterruptible Power Supply (UPS)
Model Line: GXT-5 Two Post Installation
Model Number: EBC72VRT2U
Serial Number: 1916900359AFM33

Test Report: 15444, Rev. 2 (UUT9)

UUT 2D

Rack Mounted Summary:

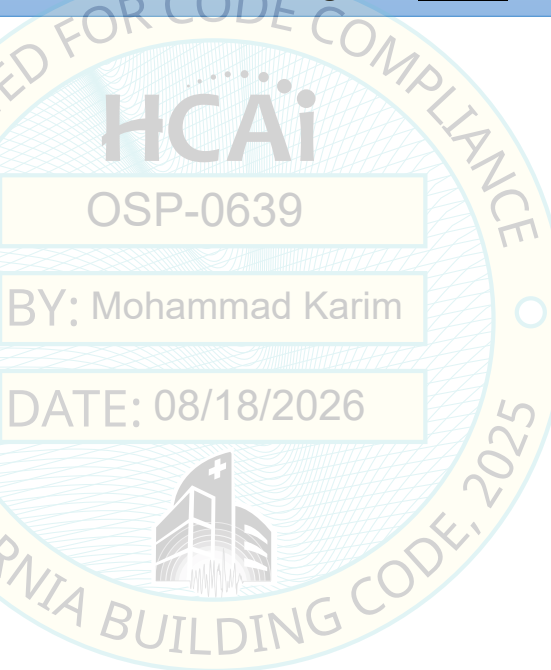
Rack Configuration 2: 2 Post Rack		
Position on Rack		Inches from Floor
43	UUT 2a	80.25
42	GXT5-3000LVRT	78.5
41	UUT 2d	76.75
40	EBC72VRT2U	75
39		73.25
38	Empty	71.5
37	UUT 2c	69.75
36	GXT5-3KL620RT	68
35		66.25
34	Empty	64.5
33		62.75
32	UUT 2b	61
31	GXT-6000MVRT4UXLV	59.25
30		57.5
29		55.75
28		54
27		52.25
26	Empty	50.5
25		48.75
24		47
23		45.25
22	Dummy Weight 150	43.5
21		41.75
20	Empty	40
19		38.25
18	Dummy Weight 150	36.5
17		34.75
16		33
15		31.25
14		29.5
13		27.75
12		26
11		24.25
10		22.5
9		20.75
8	Empty	19
7		17.25
6		15.5
5		13.75
4		12
3		10.25
2		8.5
1		6.75
5" Base		

Eaton 2 Post Rack Mounting Summary

Rack Configuration Total Weight (including rack): **743 lbs.**

Max Rack CG: **52.6"**

Max. Installation CG Height for UUT2d: **75.00"**



UNIT UNDER TEST (UUT) SUMMARY SHEET

1900509-CR-001-R5



Manufacturer:	Vertiv Corporation	UUT 3
Product Type:	Uninterruptible Power Supply (UPS)	
Model Line:	GXT-5 Four Post Installation	
Model Number:	GL840EZ-3042	
Serial Number:	n/a	
Test Report: 1900509-TR-001-R0		

UUT Properties						
Weight (lbs.)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
1,457	42.0	30.0	84.0	8.97	4.68	>33.33

UUT Highest Passed Seismic Run Information										
Building Code	Test Criteria	S _{DS} (g)	z/h	R _μ	H _f	I _p	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)
CBC 2025	ICC-ES AC 156-24	2.00	1.0	1.3	3.5	1.5	3.20	2.15	1.67	0.67
		2.50	0.0	1.0	1.0					

Product Construction Summary: Test Mounting Details:

Carbon Steel Frame and Skins

Options/Subcomponent Summary:

Description	Mfr.	Part Number
GXT-5 UPS (2000K Low Voltage)	Vertiv	2000LVRT2UXL
GXT-5 UPS (10K Medium Voltage)	Vertiv	10KMVRT6UXLN
GXT-5 UPS (6K High Voltage)	Vertiv	6KL630RT5UXLN
GXT-5 UPS (10K High Voltage)	Vertiv	10KHVRT5UXLN
GXT-5 External Battery Cabinet (48V)	Vertiv	EBC48VRT2U
GXT-5 External Battery Cabinet (192V)	Vertiv	EBC192VRT3U
GXT-5 External Battery Cabinet (288V)	Vertiv	EBC288VRT4U

Modification Details:



UUT3 configuration rack was base mounted - rigid to the fixture using four (4) 5/8" - 11 Grade 8 Hex Bolts with lock washers and square washer. Doors seismically modified with a #12 self tapping screw.

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



- UUT3a
- UUT3b
- UUT3c
- UUT3d
- UUT3e
- UUT3f
- UUT3g

UNIT UNDER TEST (UUT) SUMMARY SHEET

1900509-CR-001-R5



Manufacturer: Vertiv Corporation
Product Type: Uninterruptible Power Supply (UPS)
Model Line: GXT-5 Four Post Installation
Model Number: GL840EZ-3042
Serial Number: n/a

Test Report: 1900509-TR-001-R0

UUT 3

Rack Mounted Summary:

Rack Configuration 3: 4 Post GL 840 EZ		
Position on Rack		Position on Rack
45	Empty	82.75
44	UUT 3a	81
43	GXT5-2000LVRT	79.25
42	UUT 3e	77.5
41	EBC48VRT2U	75.75
40		74
39	UUT 3c	72.25
38	GXT5-6KL630RT	70.5
37		68.75
36		67
35	UUT 3f	65.25
34	EBC192VRT3U	63.5
33		61.75
32		60
31		58.25
30		56.5
29		54.75
28		53
27		51.25
26		49.5
25		47.75
24	Empty	46
23		44.25
22		42.5
21		40.75
20		39
19		37.25
18		35.5
17		33.75
16		32
15		30.25
14	UUT 3d	28.5
13	GXT5-10KHVRT	26.75
12		25
11		23.25
10		21.5
9		19.75
8	UUT 3b	18
7	GXT5-10KMVRT	16.25
6		14.5
5		12.75
4		11
3	UUT 3g	9.25
2	GXT5-EBC288VRT	7.5
1		5.75
4 Inches		

Great Lakes 4 Post Rack Mounting Summary

Rack Configuration Total Weight (including rack): **1,457 lbs.**

Max Rack CG: **39.1"**



1900509-CR-001-R5



UUT3A was rack mounted - rigid to a 4-Post Seismic Rack (PN: GL840EZ-3042). UUT3A was attached to the 4-Post rack within the cabinet with a Vertiv rack slide kit (PN: RMKIT18-32). Eight (8) M5 screws and clips, provided by Great Lakes, were used to secure the UUT to the rack.

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

UNIT UNDER TEST (UUT) SUMMARY SHEET

1900509-CR-001-R5



Manufacturer: Vertiv Corporation
Product Type: Uninterruptible Power Supply (UPS)
Model Line: GXT-5 Four Post Installation
Model Number: 2000LVRTUXL
Serial Number: 1924800091AFFB3

UUT 3A

Test Report: 1900509-TR-001-R0 (UUT12)

Rack Mounted Summary:

Rack Configuration 3: 4 Post GL 840 EZ		
Position on Rack		Position on Rack
45	Empty	82.75
44	UUT 3a	81
43	GXT5-2000LVRT	79.25
42	UUT 3e	77.5
41	EBC48VRT2U	75.75
40		74
39	UUT 3c	72.25
38	GXT5-6KL630RT	70.5
37		68.75
36		67
35	UUT 3f	65.25
34	EBC192VRT3U	63.5
33		61.75
32		60
31		58.25
30		56.5
29		54.75
28		53
27		51.25
26		49.5
25		47.75
24	Empty	46
23		44.25
22		42.5
21		40.75
20		39
19		37.25
18		35.5
17		33.75
16		32
15		30.25
14	UUT 3d	28.5
13	GXT5-10KHVRT	26.75
12		25
11		23.25
10		21.5
9		19.75
8	UUT 3b	18
7	GXT5-10KMVRT	16.25
6		14.5
5		12.75
4		11
3	UUT 3g	9.25
2	GXT5-EBC288VRT	7.5
1		5.75
4 Inches		

Great Lakes 4 Post Rack Mounting Summary

Rack Configuration Total Weight (including rack): **1,457 lbs.**

Max Rack CG: **39.1"**

Max. Installation CG Height for UUT3a: **79.25"**



UNIT UNDER TEST (UUT) SUMMARY SHEET

1900509-CR-001-R5

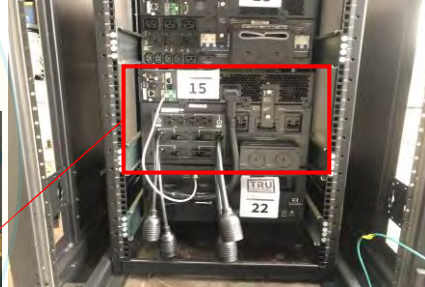


Manufacturer:	Vertiv Corporation	UUT 3B
Product Type:	Uninterruptible Power Supply (UPS)	
Model Line:	GXT-5 Four Post Installation	
Model Number:	10KMVRT6UXLN	
Serial Number:	1923800838BWFL3	
Test Report:		1900509-TR-001-R0 (UUT15)

UUT Properties						
Weight (lbs.)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
233	26.8	16.9	10.3	8.97	4.68	>33.33

UUT Highest Passed Seismic Run Information										
Building Code	Test Criteria	S _{DS} (g)	z/h	R _μ	H _f	I _p	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)
CBC 2025	ICC-ES AC 156-24	2.00	1.0	1.3	3.5	1.5	3.20	2.15	1.67	0.67
		2.50	0.0	1.0	1.0					

Product Construction Summary:	Test Mounting Details:
Carbon Steel Frame and Carbon Steel Case	

Options/Subcomponent Summary:				
Description	Mfr.	Part Number		
Liebert Power Distribution Boxes	Vertiv	PD2-106		

UUT3B was rack mounted - rigid to a 4-Post Seismic Rack (PN: GL840EZ-3042). UUT3B was attached to the 4-Post rack within the cabinet with a Vertiv rack slide kit (PN: RMKIT18-32). Eight (8) M5 screws and clips, provided by Great Lakes, were used to secure the UUT to the rack.

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

UNIT UNDER TEST (UUT) SUMMARY SHEET

1900509-CR-001-R5



Manufacturer: Vertiv Corporation
Product Type: Uninterruptible Power Supply (UPS)
Model Line: GXT-5 Four Post Installation
Model Number: 10KMVRT6UXLN
Serial Number: 1923800838BWFL3

UUT 3B

Test Report: 1900509-TR-001-R0 (UUT15)

Rack Mounted Summary:

Rack Configuration 3: 4 Post GL 840 EZ		
Position on Rack		Position on Rack
45	Empty	82.75
44	UUT 3a	81
43	GXT5-2000LVRT	79.25
42	UUT 3e	77.5
41	EBC48VRT2U	75.75
40		74
39	UUT 3c	72.25
38	GXT5-6KL630RT	70.5
37		68.75
36		67
35	UUT 3f	65.25
34	EBC192VRT3U	63.5
33		61.75
32		60
31		58.25
30		56.5
29		54.75
28		53
27		51.25
26		49.5
25		47.75
24	Empty	46
23		44.25
22		42.5
21		40.75
20		39
19		37.25
18		35.5
17		33.75
16		32
15		30.25
14	UUT 3d	28.5
13	GXT5-10KHVRT	26.75
12		25
11		23.25
10		21.5
9		19.75
8	UUT 3b	18
7	GXT5-10KMVRT	16.25
6		14.5
5		12.75
4		11
3	UUT 3g	9.25
2	GXT5-EBC288VRT	7.5
1		5.75
4 Inches		

Great Lakes 4 Post Rack Mounting Summary

Rack Configuration Total Weight (including rack): **1,457 lbs.**

Max Rack CG: **39.1"**

Max. Installation CG Height for UUT3b: **16.25"**



UNIT UNDER TEST (UUT) SUMMARY SHEET

1900509-CR-001-R5



Manufacturer: Vertiv Corporation
Product Type: Uninterruptible Power Supply (UPS)
Model Line: GXT-5 Four Post Installation
Model Number: 6KL630RT5UXLN
Serial Number: 1921900561BWGG3

UUT 3C

Test Report: 1900509-TR-001-R0 (UUT17)

Rack Mounted Summary:

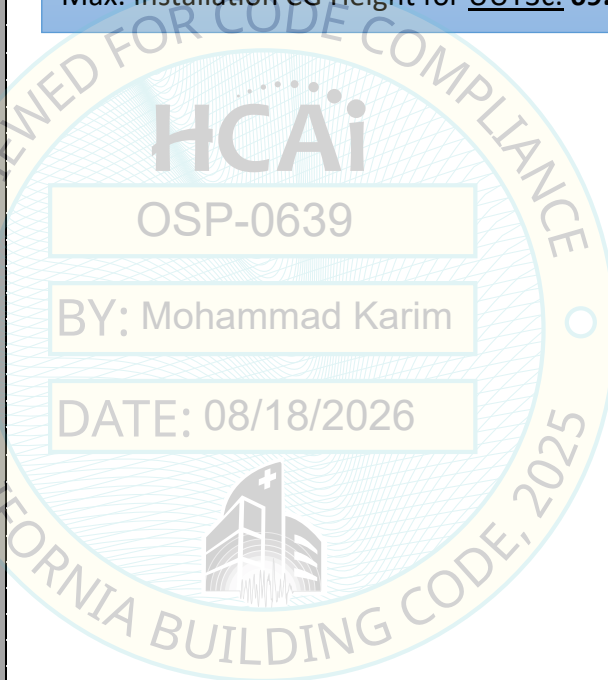
Rack Configuration 3: 4 Post GL 840 EZ		
Position on Rack		Position on Rack
45	Empty	82.75
44	UUT 3a	81
43	GXT5-2000LVRT	79.25
42	UUT 3e	77.5
41	EBC48VRT2U	75.75
40		74
39	UUT 3c	72.25
38	GXT5-6KL630RT	70.5
37		68.75
36		67
35	UUT 3f	65.25
34	EBC192VRT3U	63.5
33		61.75
32		60
31		58.25
30		56.5
29		54.75
28		53
27		51.25
26		49.5
25		47.75
24	Empty	46
23		44.25
22		42.5
21		40.75
20		39
19		37.25
18		35.5
17		33.75
16		32
15		30.25
14	UUT 3d	28.5
13	GXT5-10KHVRT	26.75
12		25
11		23.25
10		21.5
9		19.75
8	UUT 3b	18
7	GXT5-10KMVRT	16.25
6		14.5
5		12.75
4		11
3	UUT 3g	9.25
2	GXT5-EBC288VRT	7.5
1		5.75
4 Inches		

Great Lakes 4 Post Rack Mounting Summary

Rack Configuration Total Weight (including rack): **1,457 lbs.**

Max Rack CG: **39.1"**

Max. Installation CG Height for UUT3c: **69.63"**



UNIT UNDER TEST (UUT) SUMMARY SHEET

1900509-CR-001-R5



Manufacturer:	Vertiv Corporation	UUT 3D
Product Type:	Uninterruptible Power Supply (UPS)	
Model Line:	GXT-5 Four Post Installation	
Model Number:	10KHVRRUXLN	
Serial Number:	1835300277BWGG3	
Test Report: 1900509-TR-001-R0 (UUT18)		

UUT Properties						
Weight (lbs.)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
162	24.9	16.9	8.5	8.97	4.68	>33.33

UUT Highest Passed Seismic Run Information										
Building Code	Test Criteria	S _{DS} (g)	z/h	R _μ	H _f	I _p	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)
CBC 2025	ICC-ES AC 156-24	2.00	1.0	1.3	3.5	1.5	3.20	2.15	1.67	0.67
		2.50	0.0	1.0	1.0					

Product Construction Summary:	Test Mounting Details:
Carbon Steel Frame and Carbon Steel Case	

Options/Subcomponent Summary:			  
Description	Mfr.	Part Number	
Breaker	KUOYUH	88-15-P1B14-P100SB	
	Shanghai Liangxin Electrical CO LTD	NDB2-63C50/2P	
Liebert Power Distribution Boxes	Vertiv	PD5-CE10HSWRMSU	
UUT3D was rack mounted - rigid to a 4-Post Seismic Rack (PN: GL840EZ-3042). UUT3D was attached to the 4-Post rack within the cabinet with a Vertiv rack slide kit (PN: RMKIT18-32). Eight (8) M5 screws and clips, provided by Great Lakes, were used to secure the UUT to the rack. Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test. Contents were included in testing per operating conditions.			

UNIT UNDER TEST (UUT) SUMMARY SHEET

1900509-CR-001-R5



Manufacturer: Vertiv Corporation
Product Type: Uninterruptible Power Supply (UPS)
Model Line: GXT-5 Four Post Installation
Model Number: 10KHVRRUXLN
Serial Number: 1835300277BWGG3

UUT 3D

Test Report: 1900509-TR-001-R0 (UUT18)

Rack Mounted Summary:

Rack Configuration 3: 4 Post GL 840 EZ		
Position on Rack		Position on Rack
45	Empty	82.75
44	UUT 3a	81
43	GXT5-2000LVRT	79.25
42	UUT 3e	77.5
41	EBC48VRT2U	75.75
40		74
39	UUT 3c	72.25
38	GXT5-6KL630RT	70.5
37		68.75
36		67
35	UUT 3f	65.25
34	EBC192VRT3U	63.5
33		61.75
32		60
31		58.25
30		56.5
29		54.75
28		53
27		51.25
26		49.5
25		47.75
24	Empty	46
23		44.25
22		42.5
21		40.75
20		39
19		37.25
18		35.5
17		33.75
16		32
15		30.25
14	UUT 3d	28.5
13	GXT5-10KHVRT	26.75
12		25
11		23.25
10		21.5
9		19.75
8	UUT 3b	18
7	GXT5-10KMVRT	16.25
6		14.5
5		12.75
4		11
3	UUT 3g	9.25
2	GXT5-EBC288VRT	7.5
1		5.75
4 Inches		

Great Lakes 4 Post Rack Mounting Summary

Rack Configuration Total Weight (including rack): **1,457 lbs.**

Max Rack CG: **39.1"**

Max. Installation CG Height for UUT3d: **25.88"**



UNIT UNDER TEST (UUT) SUMMARY SHEET

1900509-CR-001-R5

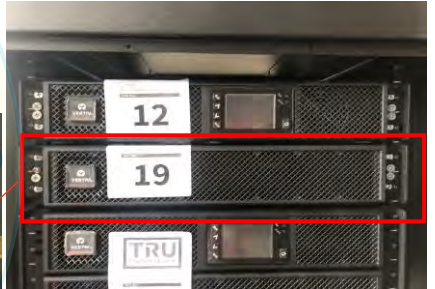


Manufacturer:	Vertiv Corporation	UUT 3E
Product Type:	Uninterruptible Power Supply (UPS)	
Model Line:	GXT-5 Four Post Installation	
Model Number:	EBC48VRT2U	
Serial Number:	1923800417AFM23	Test Report: 1900509-TR-001-R0 (UUT19)

UUT Properties						
Weight (lbs.)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
66	18.6	16.9	3.3	8.97	4.68	>33.33

UUT Highest Passed Seismic Run Information										
Building Code	Test Criteria	S _{DS} (g)	z/h	R _μ	H _f	I _p	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)
CBC 2025	ICC-ES AC 156-24	2.00	1.0	1.3	3.5	1.5	3.20	2.15	1.67	0.67
		2.50	0.0	1.0	1.0					

Product Construction Summary:	Test Mounting Details:
Carbon Steel Frame and Carbon Steel Case	

Options/Subcomponent Summary:			   UUT3E was rack mounted - rigid to a 4-Post Seismic Rack (PN: GL840EZ-3042). UUT3E was attached to the 4-Post rack within the cabinet with a Vertiv rack slide kit (PN: RMKIT18-32). Eight (8) M5 screws and clips, provided by Great Lakes, were used to secure the UUT to the rack. Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test. Contents were included in testing per operating conditions.
Description	Mfr.	Part Number	
Battery	LEOCH	DJW12-9.0	

UNIT UNDER TEST (UUT) SUMMARY SHEET

1900509-CR-001-R5



Manufacturer: Vertiv Corporation
Product Type: Uninterruptible Power Supply (UPS)
Model Line: GXT-5 Four Post Installation
Model Number: EBC48VRT2U
Serial Number: 1923800417AFM23

UUT 3E

Test Report: 1900509-TR-001-R0 (UUT19)

Rack Mounted Summary:

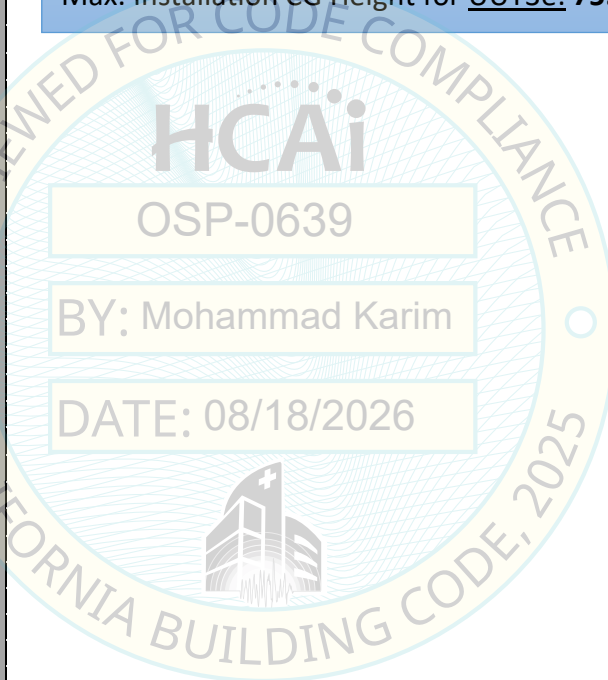
Rack Configuration 3: 4 Post GL 840 EZ		
Position on Rack		Position on Rack
45	Empty	82.75
44	UUT 3a	81
43	GXT5-2000LVRT	79.25
42	UUT 3e	77.5
41	EBC48VRT2U	75.75
40		74
39	UUT 3c	72.25
38	GXT5-6KL630RT	70.5
37		68.75
36		67
35	UUT 3f	65.25
34	EBC192VRT3U	63.5
33		61.75
32		60
31		58.25
30		56.5
29		54.75
28		53
27		51.25
26		49.5
25		47.75
24	Empty	46
23		44.25
22		42.5
21		40.75
20		39
19		37.25
18		35.5
17		33.75
16		32
15		30.25
14	UUT 3d	28.5
13	GXT5-10KHVRT	26.75
12		25
11		23.25
10		21.5
9		19.75
8	UUT 3b	18
7	GXT5-10KMVRT	16.25
6		14.5
5		12.75
4		11
3	UUT 3g	9.25
2	GXT5-EBC288VRT	7.5
1		5.75
4 Inches		

Great Lakes 4 Post Rack Mounting Summary

Rack Configuration Total Weight (including rack): **1,457 lbs.**

Max Rack CG: **39.1"**

Max. Installation CG Height for UUT3e: **75.75"**



1900509-CR-001-R5



UUT3F was rack mounted - rigid to a 4-Post Seismic Rack (PN: GL840EZ-3042). UUT3F was attached to the 4-Post rack within the cabinet with a Vertiv rack slide kit (PN: RMKIT18-32). Eight (8) M5 screws and clips, provided by Great Lakes, were used to secure the UUT to the rack.

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

UNIT UNDER TEST (UUT) SUMMARY SHEET

1900509-CR-001-R5



Manufacturer: Vertiv Corporation
Product Type: Uninterruptible Power Supply (UPS)
Model Line: GXT-5 Four Post Installation
Model Number: EBC192VRT4U
Serial Number: 1919800560BWK93

UUT 3F

Test Report: 1900509-TR-001-R0 (UUT21)

Rack Mounted Summary:

Rack Configuration 3: 4 Post GL 840 EZ		
Position on Rack		Position on Rack
45	Empty	82.75
44	UUT 3a	81
43	GXT5-2000LVRT	79.25
42	UUT 3e	77.5
41	EBC48VRT2U	75.75
40		74
39	UUT 3c	72.25
38	GXT5-6KL630RT	70.5
37		68.75
36		67
35	UUT 3f	65.25
34	EBC192VRT3U	63.5
33		61.75
32		60
31		58.25
30		56.5
29		54.75
28		53
27		51.25
26		49.5
25		47.75
24	Empty	46
23		44.25
22		42.5
21		40.75
20		39
19		37.25
18		35.5
17		33.75
16		32
15		30.25
14	UUT 3d	28.5
13	GXT5-10KHVRT	26.75
12		25
11		23.25
10		21.5
9		19.75
8	UUT 3b	18
7	GXT5-10KMVRT	16.25
6		14.5
5		12.75
4		11
3	UUT 3g	9.25
2	GXT5-EBC288VRT	7.5
1		5.75
4 Inches		

Great Lakes 4 Post Rack Mounting Summary

Rack Configuration Total Weight (including rack): **1,457 lbs.**

Max Rack CG: **39.1"**

Max. Installation CG Height for UUT3f: **62.63"**



UNIT UNDER TEST (UUT) SUMMARY SHEET

1900509-CR-001-R5



Manufacturer:	Vertiv Corporation	UUT 3G
Product Type:	Uninterruptible Power Supply (UPS)	
Model Line:	GXT-5 Four Post Installation	
Model Number:	EBC288VRT6U	
Serial Number:	1922900805BWK83	Test Report: 1900509-TR-001-R0 (UUT22)

UUT Properties						
Weight (lbs.)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
200	16.8	16.9	6.8	8.97	4.68	>33.33

UUT Highest Passed Seismic Run Information										
Building Code	Test Criteria	S _{DS} (g)	z/h	R _μ	H _f	I _p	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)
CBC 2025	ICC-ES AC 156-24	2.00	1.0	1.3	3.5	1.5	3.20	2.15	1.67	0.67
		2.50	0.0	1.0	1.0					

Product Construction Summary:	Test Mounting Details:
Carbon Steel Frame and Carbon Steel Case	

Options/Subcomponent Summary:			
Description	Mfr.	Part Number	
Battery	LEOCH	DJW12-9.0	

UUT3G was rack mounted - rigid to a 4-Post Seismic Rack (PN: GL840EZ-3042). UUT3G was attached to the 4-Post rack within the cabinet with a Vertiv rack slide kit (PN: RMKIT18-32). Eight (8) M5 screws and clips, provided by Great Lakes, were used to secure the UUT to the rack.

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

UNIT UNDER TEST (UUT) SUMMARY SHEET

1900509-CR-001-R5



Manufacturer: Vertiv Corporation
Product Type: Uninterruptible Power Supply (UPS)
Model Line: GXT-5 Four Post Installation
Model Number: EBC288VRT6U
Serial Number: 1922900805BWK83

UUT 3G

Test Report: 1900509-TR-001-R0 (UUT22)

Rack Mounted Summary:

Rack Configuration 3: 4 Post GL 840 EZ		
Position on Rack		Position on Rack
45	Empty	82.75
44	UUT 3a	81
43	GXT5-2000LVRT	79.25
42	UUT 3e	77.5
41	EBC48VRT2U	75.75
40		74
39	UUT 3c	72.25
38	GXT5-6KL630RT	70.5
37		68.75
36		67
35	UUT 3f	65.25
34	EBC192VRT3U	63.5
33		61.75
32		60
31		58.25
30		56.5
29		54.75
28		53
27		51.25
26		49.5
25		47.75
24	Empty	46
23		44.25
22		42.5
21		40.75
20		39
19		37.25
18		35.5
17		33.75
16		32
15		30.25
14	UUT 3d	28.5
13	GXT5-10KHVRT	26.75
12		25
11		23.25
10		21.5
9		19.75
8	UUT 3b	18
7	GXT5-10KMVRT	16.25
6		14.5
5		12.75
4		11
3	UUT 3g	9.25
2	GXT5-EBC288VRT	7.5
1		5.75
4 Inches		

Great Lakes 4 Post Rack Mounting Summary

Rack Configuration Total Weight (including rack): **1,457 lbs.**

Max Rack CG: **39.1"**

Max. Installation CG Height for UUT3g: **7.50"**



UNIT UNDER TEST (UUT) SUMMARY SHEET

1900509-CR-001-R5



Manufacturer:	Vertiv Corporation	UUT 4
Product Type:	Uninterruptible Power Supply (UPS)	
Model Line:	GXT-5 Four Post Installation	
Model Number:	GL840EZ-3042	
Serial Number:	n/a	Test Report: 15444, Rev. 2

UUT Properties						
Weight (lbs.)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
1,384	42.0	30.0	84.0	7.52	4.82	>33.33

UUT Highest Passed Seismic Run Information										
Building Code	Test Criteria	S _{DS} (g)	z/h	R _μ	H _f	I _p	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)
CBC 2025	ICC-ES AC 156-24	2.00	1.0	1.3	3.5	1.5	3.20	2.15	1.67	0.67
		2.50	0.0	1.0	1.0					

Product Construction Summary:	Test Mounting Details:
Carbon Steel Frame and Skins	

Options/Subcomponent Summary:	UUT4a UUT4b UUT4c UUT4d	
Description	Mfr.	Part Number
GXT-5 UPS (3000K Low Voltage)	Vertiv	3000LVRT2UXL
GXT-5 UPS (6000K Medium Voltage)	Vertiv	6000MVRT4UXLN
GXT-5 UPS (3K High Voltage)	Vertiv	3KL630RT2UXL
GXT-5 External Battery Cabinet (72V)	Vertiv	EBC72VRT2U

Modification Details:	UUT4 configuration rack was base mounted - rigid to the fixture using four (4) 5/8" - 11 Grade 8 Hex Bolts with lock washers and square washer. Doors seismically modified with a #12 self tapping screw. Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test. Contents were included in testing per operating conditions.
	

UNIT UNDER TEST (UUT) SUMMARY SHEET

1900509-CR-001-R5



Manufacturer: Vertiv Corporation
Product Type: Uninterruptible Power Supply (UPS)
Model Line: GXT-5 Four Post Installation
Model Number: GL840EZ-3042
Serial Number: n/a

Test Report: 15444, Rev. 2

UUT 4

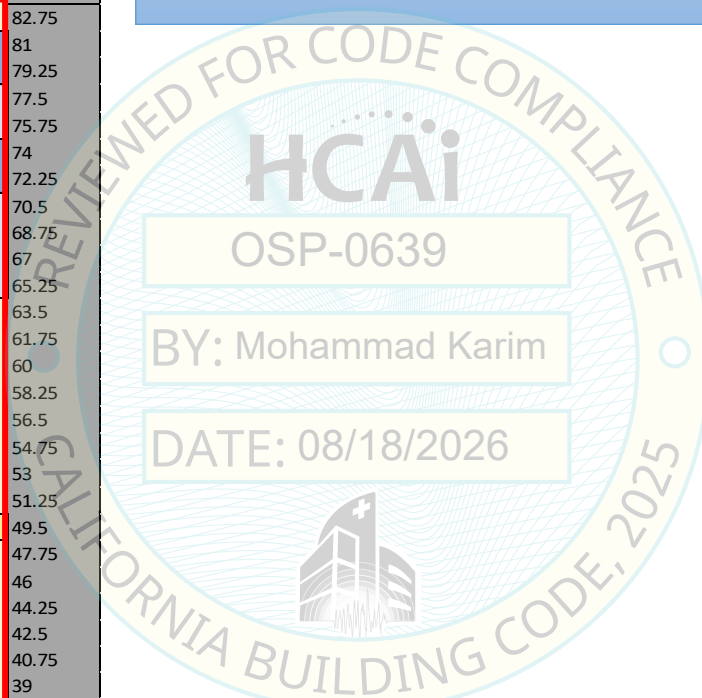
Rack Mounted Summary:

Rack Configuration 4: 4 Post GL 840 EZ		
Position on Rack		Position on Rack
45	Empty	82.75
44	UUT4a	81
43	GXT5-3000LVRT	79.25
42	UUT 4d	77.5
41	EBC72VRT2U	75.75
40	UUT 4c	74
39	GXT5-3KL620RT	72.25
38		70.5
37	UUT 4b	68.75
36	GXT5-6000MVRT4UXLN	67
35		65.25
34		63.5
33		61.75
32		60
31	Empty	58.25
30		56.5
29		54.75
28		53
27		51.25
26	Dummy 250 lbs	49.5
25		47.75
24		46
23		44.25
22		42.5
21	Empty	40.75
20		39
19		37.25
18		35.5
17		33.75
16	Dummy 250 lbs	32
15		30.25
14		28.5
13		26.75
12		25
11		23.25
10		21.5
9		19.75
8	Empty	18
7		16.25
6		14.5
5		12.75
4		11
3		9.25
2		7.5
1		5.75
4 Inches		

Great Lakes 4 Post Rack Mounting Summary

Rack Configuration Total Weight (including rack): **1,384 lbs.**

Max Rack CG: **50"**



UNIT UNDER TEST (UUT) SUMMARY SHEET

1900509-CR-001-R5



Manufacturer: Vertiv Corporation
Product Type: Uninterruptible Power Supply (UPS)
Model Line: GXT-5 Four Post Installation
Model Number: 3000LVRT2UXL
Serial Number: 1907500282AFFE3

UUT 4A

Test Report: 15444, Rev. 2 (UUT13)

Rack Mounted Summary:

Rack Configuration 4: 4 Post GL 840 EZ		
Position on Rack		Position on Rack
45	Empty	82.75
44	UUT4a	81
43	GXT5-3000LVRT	79.25
42	UUT 4d	77.5
41	EBC72VRT2U	75.75
40	UUT 4c	74
39	GXT5-3KL620RT	72.25
38		70.5
37	UUT 4b	68.75
36	GXT5-6000MVRT4UXLN	67
35		65.25
34		63.5
33		61.75
32		60
31		58.25
30	Empty	56.5
29		54.75
28		53
27		51.25
26	Dummy 250 lbs	49.5
25		47.75
24		46
23		44.25
22		42.5
21	Empty	40.75
20		39
19		37.25
18		35.5
17		33.75
16	Dummy 250 lbs	32
15		30.25
14		28.5
13		26.75
12		25
11		23.25
10		21.5
9		19.75
8	Empty	18
7		16.25
6		14.5
5		12.75
4		11
3		9.25
2		7.5
1		5.75
4 Inches		

Great Lakes 4 Post Rack Mounting Summary

Rack Configuration Total Weight (including rack): **1,384 lbs.**

Max Rack CG: **50"**

Max. Installation CG Height for UUT4a: **79.25"**



UNIT UNDER TEST (UUT) SUMMARY SHEET

1900509-CR-001-R5



Manufacturer:	Vertiv Corporation	UUT 4B
Product Type:	Uninterruptible Power Supply (UPS)	
Model Line:	GXT-5 Four Post Installation	
Model Number:	6KL630RT5UCLN	
Serial Number:	1919200098BWK3	Test Report: 15444, Rev. 2 (UUT14)

UUT Properties						
Weight (lbs.)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
126	26.8	16.9	6.7	7.52	4.82	>33.33

UUT Highest Passed Seismic Run Information										
Building Code	Test Criteria	S _{DS} (g)	z/h	R _μ	H _f	I _p	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)
CBC 2025	ICC-ES AC 156-24	2.00	1.0	1.3	3.5	1.5	3.20	2.15	1.67	0.67
		2.50	0.0	1.0	1.0					

Product Construction Summary:	Test Mounting Details:
Carbon Steel Frame and Carbon Steel Case	

Options/Subcomponent Summary:		
Description	Mfr.	Part Number
Breaker	Shanghai Liangxin Electical CO LTD	NDB3-100
Liebert Power Distribution Boxes	Vertiv	PD5-005

UNIT UNDER TEST (UUT) SUMMARY SHEET

1900509-CR-001-R5



Manufacturer: Vertiv Corporation
Product Type: Uninterruptible Power Supply (UPS)
Model Line: GXT-5 Four Post Installation
Model Number: 6KL630RT5UCLN
Serial Number: 1919200098BWKf3

UUT 4B

Test Report: 15444, Rev. 2 (UUT14)

Rack Mounted Summary:

Rack Configuration 4: 4 Post GL 840 EZ		
Position on Rack		Position on Rack
45	Empty	82.75
44	UUT4a	81
43	GXT5-3000LVRT	79.25
42	UUT 4d	77.5
41	EBC72VRT2U	75.75
40	UUT 4c	74
39	GXT5-3KL620RT	72.25
38		70.5
37	UUT 4b	68.75
36	GXT5-6000MVRT4UXLN	67
35		65.25
34		63.5
33		61.75
32		60
31		58.25
30	Empty	56.5
29		54.75
28		53
27		51.25
26	Dummy 250 lbs	49.5
25		47.75
24		46
23		44.25
22		42.5
21	Empty	40.75
20		39
19		37.25
18		35.5
17		33.75
16	Dummy 250 lbs	32
15		30.25
14		28.5
13		26.75
12		25
11		23.25
10		21.5
9		19.75
8	Empty	18
7		16.25
6		14.5
5		12.75
4		11
3		9.25
2		7.5
1		5.75
4 Inches		

Great Lakes 4 Post Rack Mounting Summary

Rack Configuration Total Weight (including rack): **1,384 lbs.**

Max Rack CG: **50"**

Max. Installation CG Height for UUT4b: **67.00"**



UNIT UNDER TEST (UUT) SUMMARY SHEET

1900509-CR-001-R5



Manufacturer: Vertiv Corporation
Product Type: Uninterruptible Power Supply (UPS)
Model Line: GXT-5 Four Post Installation
Model Number: 3KL620RT2UCL
Serial Number: 1916900447AFG63

UUT 4C

Test Report: 15444, Rev. 2 (UUT16)

Rack Mounted Summary:

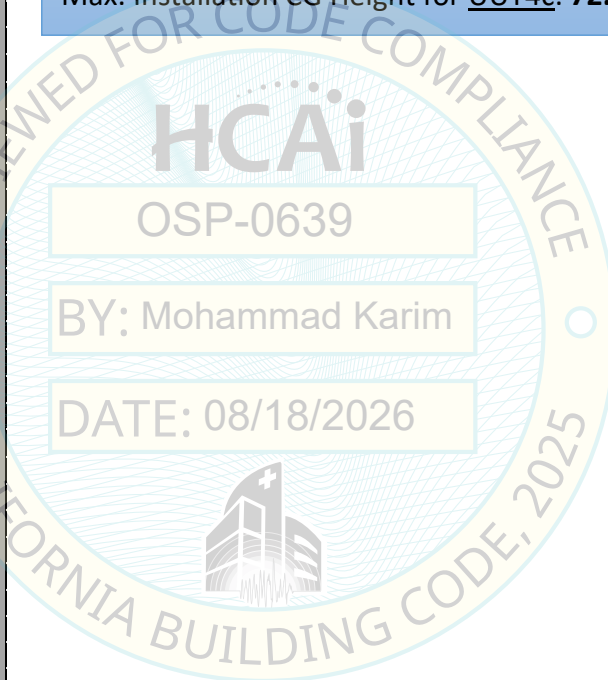
Rack Configuration 4: 4 Post GL 840 EZ		
Position on Rack		Position on Rack
45	Empty	82.75
44	UUT4a	81
43	GXT5-3000LVRT	79.25
42	UUT 4d	77.5
41	EBC72VRT2U	75.75
40	UUT 4c	74
39	GXT5-3KL620RT	72.25
38		70.5
37	UUT 4b	68.75
36	GXT5-6000MVRT4UXLN	67
35		65.25
34		63.5
33		61.75
32		60
31		58.25
30	Empty	56.5
29		54.75
28		53
27		51.25
26	Dummy 250 lbs	49.5
25		47.75
24		46
23		44.25
22		42.5
21	Empty	40.75
20		39
19		37.25
18		35.5
17		33.75
16	Dummy 250 lbs	32
15		30.25
14		28.5
13		26.75
12		25
11		23.25
10		21.5
9		19.75
8	Empty	18
7		16.25
6		14.5
5		12.75
4		11
3		9.25
2		7.5
1		5.75
4 Inches		

Great Lakes 4 Post Rack Mounting Summary

Rack Configuration Total Weight (including rack): **1,384 lbs.**

Max Rack CG: **50"**

Max. Installation CG Height for UUT4c: **72.25"**



UNIT UNDER TEST (UUT) SUMMARY SHEET

1900509-CR-001-R5



Manufacturer: Vertiv Corporation
Product Type: Uninterruptible Power Supply (UPS)
Model Line: GXT-5 Four Post Installation
Model Number: EBC72VRT2U
Serial Number: 1916900363AFM33

Test Report: 15444, Rev. 2 (UUT20)

UUT 4D

Rack Mounted Summary:

Rack Configuration 4: 4 Post GL 840 EZ		
Position on Rack		Position on Rack
45	Empty	82.75
44	UUT4a	81
43	GXT5-3000LVRT	79.25
42	UUT 4d	77.5
41	EBC72VRT2U	75.75
40	UUT 4c	74
39	GXT5-3KL620RT	72.25
38		70.5
37	UUT 4b	68.75
36	GXT5-6000MVRT4UXLN	67
35		65.25
34		63.5
33		61.75
32		60
31		58.25
30	Empty	56.5
29		54.75
28		53
27		51.25
26	Dummy 250 lbs	49.5
25		47.75
24		46
23		44.25
22		42.5
21	Empty	40.75
20		39
19		37.25
18		35.5
17		33.75
16	Dummy 250 lbs	32
15		30.25
14		28.5
13		26.75
12		25
11		23.25
10		21.5
9		19.75
8	Empty	18
7		16.25
6		14.5
5		12.75
4		11
3		9.25
2		7.5
1		5.75
4 Inches		

Great Lakes 4 Post Rack Mounting Summary

Rack Configuration Total Weight (including rack): **1,384 lbs.**

Max Rack CG: **50"**

Max. Installation CG Height for UUT4d: **75.75"**



SPECIAL SEISMIC CERTIFICATION
CERTIFIED COMPONENT MATRIX

1900509-CR-001-R5



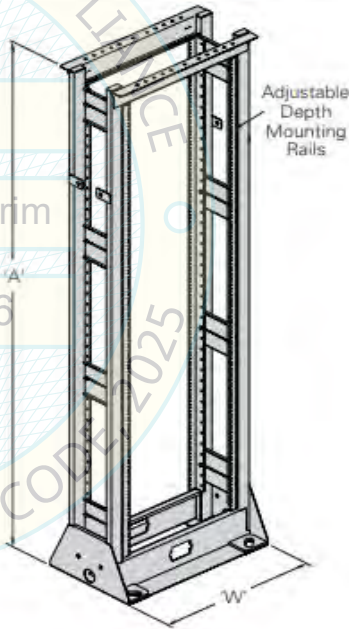
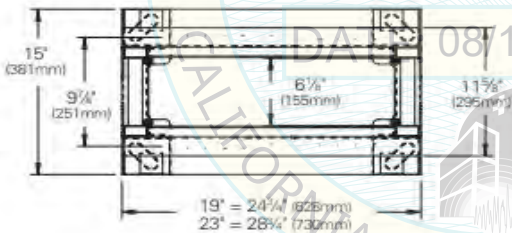
B-Line Two-Post Relay Rack Details

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
- Top angles drilled for runway attachment
- Openings in front and rear of base for duplex receptacle mounting
- Holes for grounding provided in four locations
- 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)	'W' Spacing In. (mm)	Mounting Spaces	Shipping Weight Lbs. (kg)
19" (482mm) Rack Width				
SB85219084	84" (2133)	24 1/4" (628)	43	113 (51.3)
SB85219096	96" (2438)	24 1/4" (628)	43	124 (56.2)
23" (584mm) Rack Width				
SB85223084	84" (2133)	28 3/4" (730)	43	117 (53.1)
SB85223096	96" (2438)	28 3/4" (730)	43	127 (57.8)

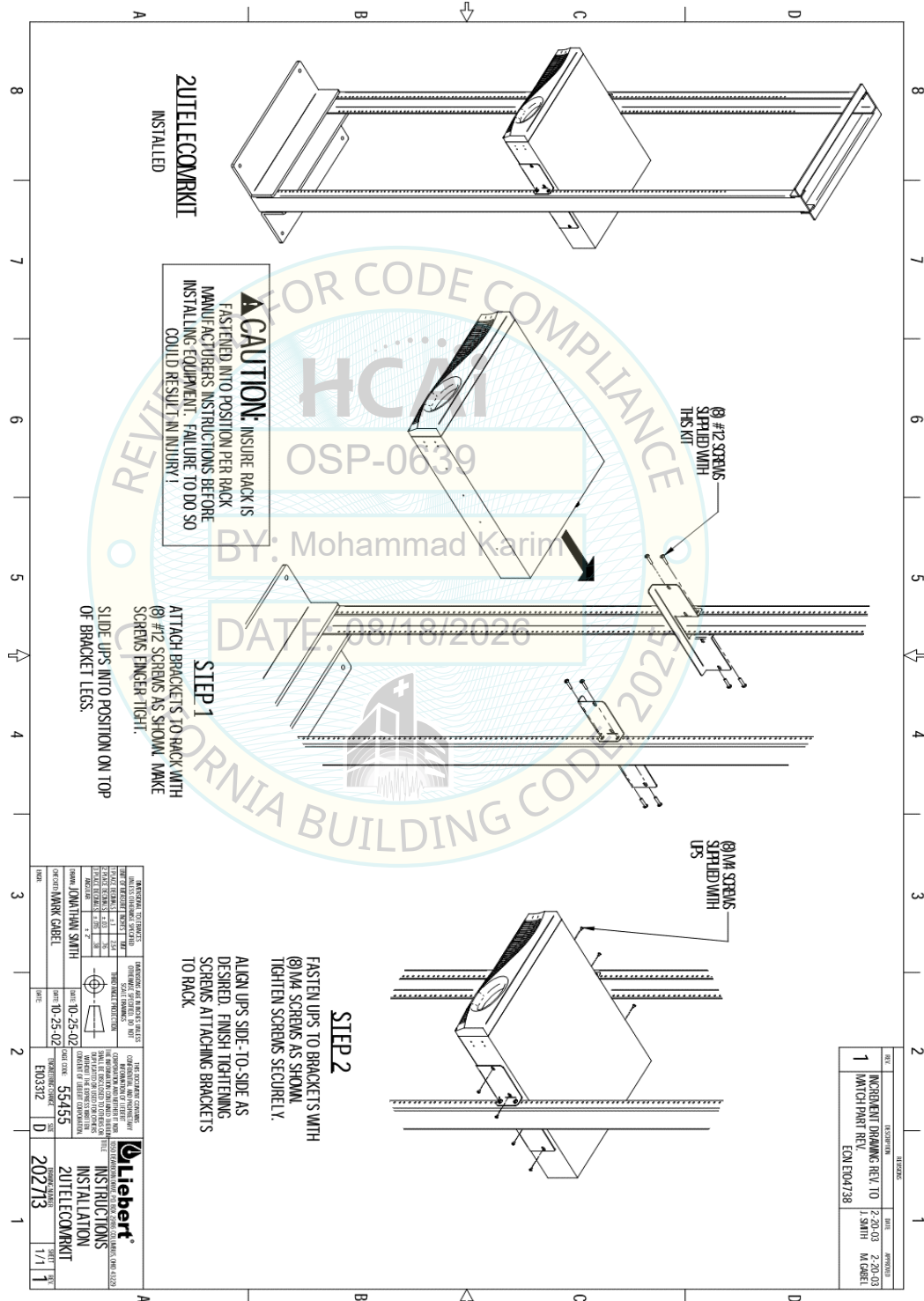
Specify part number and finish when ordering.

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2U TELECOMRKIT Mounting Details



REV.	DESCRIPTION	DATE	APPROVED
1	INCREASING DRAWING REV. TO MATCH PART REV. ECU E04738	2-20-03 J. SMITH M. CABEL	

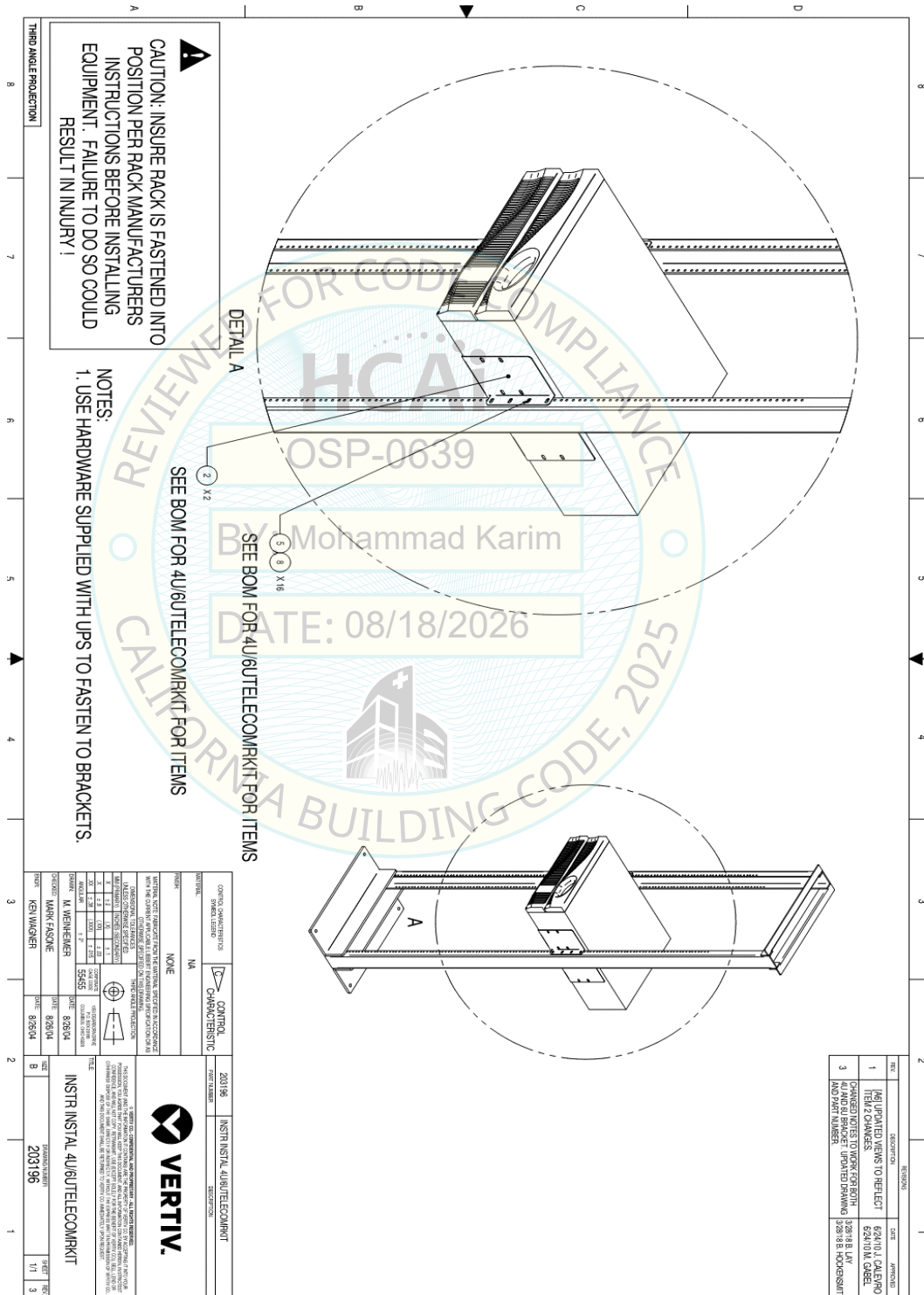
DATE	DATE	DATE	DATE
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55455	55455	55455	55455
202713	202713	202713	202713
1/1	1/1	1/1	1/1

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4U/6U TELECOMRKIT Mounting Details



TRU Compliance, by Structural Integrity Associates, Inc.

844-TRU-0200 | info@trucompliance.com

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B-Line Four-Post Relay Rack Details



product spotlight

SEISMIC ENCLOSURE

Great Lakes Case & Cabinet is pleased to introduce our new Seismic Server Enclosure. The GL840EZ-3042 Enclosure was independently tested and certified to successfully exceed established Seismic Zone 4 GR-63-CORE testing standards. The tests were performed by NTS (National Technical Systems) of Boxborough, MA for 1,000 lb. weight capacity. The enclosure also has a non-seismic weight capacity of 3,000 lbs.

Designed for those areas which may be subject to earthquake activity, this enclosure contains 45 RMU of mounting space in a 84"H X 30"W X 42"D "footprint".

The Great Lakes Seismic Enclosure is constructed from North American cold rolled steel with two pairs of #12 gauge M6 mounting rails and a fully welded frame.



In the simplest of terms, the 840EZ Enclosure represents the Great Lakes' equivalent of a seismic rated version of our Enhanced Server (ES) series of enclosures. All of our standard ES Series features and accessories (including our proprietary flexible mounting profile rails, power strip brackets, overhead and internal cable management accessories) can be found in our seismic certified platform. Some specialized accessories, such as our proprietary air manager, require a custom design based on the seismic requirements of the enclosure's frame construction.

Now Great Lakes customers can have the same great performance they have come to expect from our ES Server Enclosures, in a Seismic certified package! Compliant, custom variations of this platform are also available upon request. Please talk with your Great Lakes representative or call 1-866-TRY-GLCC (1-866-879-4522) for more information.

Part No.	Description
GL840EZ-3042	Complete Enclosure; 45 RMU, 1000 lb. weight capacity; certified Seismic Zone 4 NEBS GR-63-CORE
	Additional sizes available on request

WeRackYourWorld.com

SPECIAL SEISMIC CERTIFICATION CERTIFIED COMPONENT MATRIX

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4 Post Mounting Details



RMKIT18-32 and RMKIT18-32TAA Rack Slide Kit Installation

Note: When the UPS and/or External Battery Cabinets are to be installed in a rack, it must be supported by a shelf, fixed rails or slide rails on each side. The factory-supplied rack mount handles that ship with the UPS cannot support the weight of the UPS or battery cabinet. They are only used to move the UPS into and out of the rack and secure the UPS into the rack.

To install a Liebert GXT3 rack/tower UPS or battery cabinet in a rack:

1. Unpack the two slide rails assemblies and mounting hardware from the rack-mounting kit box.

The slide rail assembly includes inner, front and rear members. They are interchangeable between left-hand or right-hand side. Mounting hardware includes M4 screws and M5 screws.

2. Remove the inner member of each slide rail assembly by extending it to its outermost position; depressing the retaining latch and then pulling inner member from slide rail assembly (see Figure 1).

Figure 1 Pulling inner members from each slide rail assembly

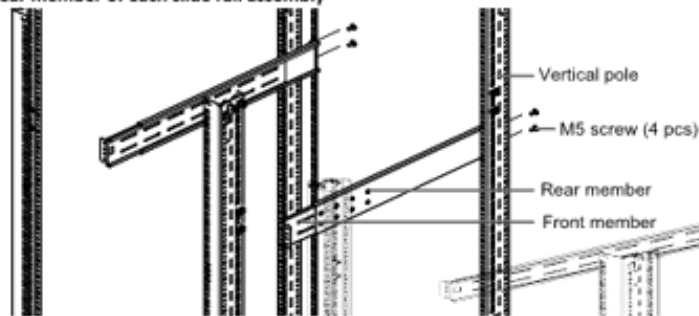


3. Determine the UPS and/or battery cabinet's mounting position inside the rack's vertical rails.

Caution: To reduce the risk of tipping, consider installing the UPS & battery cabinets as low as possible in the rack.

4. Attach the rear member of each slide rail assembly to the rack's rails with two factory-supplied M5 screws (see Figure 2).

Figure 2 Installing rear member of each slide rail assembly



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RMKIT18-32 Installation Guide

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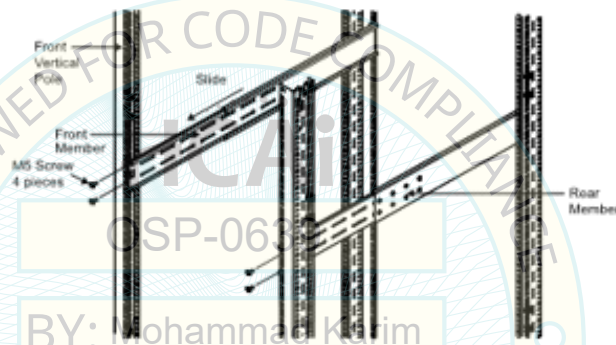


4 Post Mounting Details



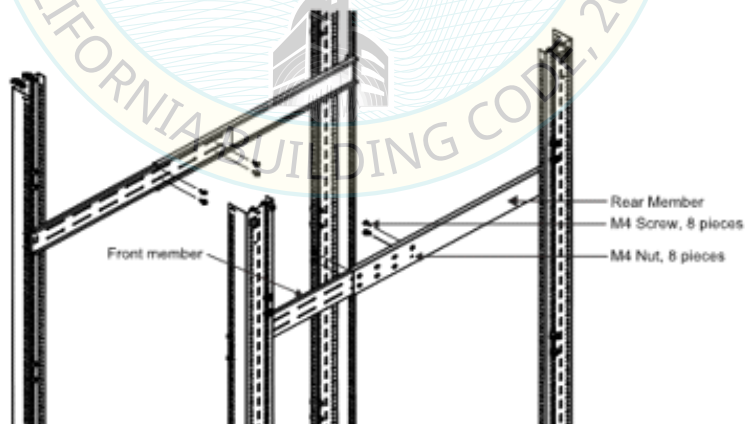
5. Extend the slide rail assembly by sliding the front member forward until it touches the rack's front vertical rails (adjustable length: 18 to 32 inches [457-813mm]). Use two M5 screws to fix each front member onto the front vertical rails through the installation holes. Make sure that slide rail assemblies are at the same mounting height on all four rack rails, as shown in Figure 3.

Figure 3 Installing front member of each slide rail assembly



6. Fasten rear member and front member together using four M4 screws and four M4 nuts (M4 nuts have been factory-installed on the rear member) per slide rail assembly, as shown in Figure 4.

Figure 4 Fastening rear member and front member together



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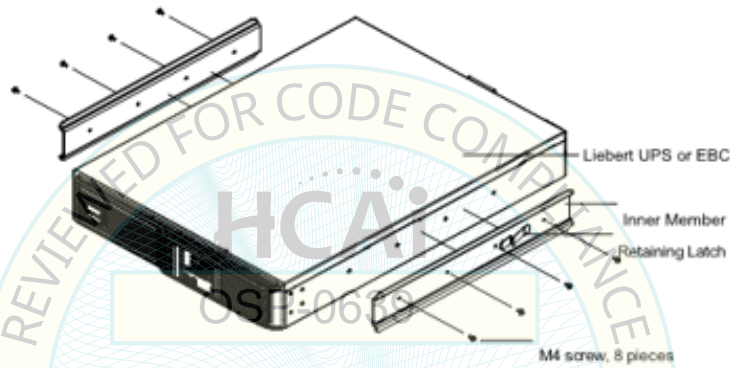


4 Post Mounting Details



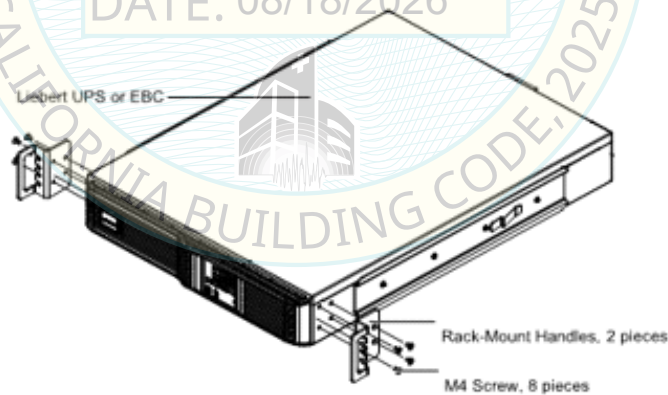
7. Fasten inner members pulled from the slide rail assemblies in Step 2 to the UPS on both sides with eight M4 screws provided in this kit. Make sure that the retaining latch is near the rear of the UPS, as shown in Figure 5.

Figure 5 Installing inner members



8. Use M4 screws to install ears of accessories on both sides of the UPS, as shown in Figure 6.

Figure 6 Installing rack-mount handles



SPECIAL SEISMIC CERTIFICATION CERTIFIED COMPONENT MATRIX

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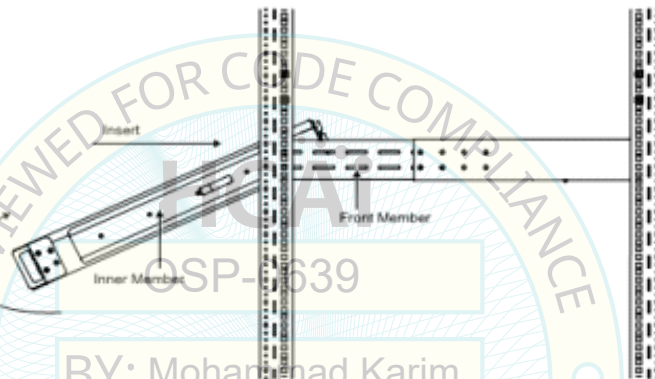


4 Post Mounting Details



9. Insert the UPS, with inner members attached, into slide rail assemblies by inserting top and bottom edges of inner members into the top and bottom, curved tracks of front members and sliding the UPS into rack, as shown in Figure 7.

Figure 7 Insert the UPS



Note : Ends of inner members are tapered to allow rear of the UPS to be angled upward before insertion, if space allows.

The UPS should move smoothly into slide rail assemblies. If not, recheck alignment of front and rear members from Steps 4 through 6.

Factory-supplied rack handles are not intended to be used to lift the UPS. These are intended to be used to slide the UPS into and out of the rack.

10. Through the rack mount handles, use M5 screws provided in this kit to secure front of the UPS to rack EIA rails to prevent the UPS from sliding out of position.
11. If optional Liebert® external battery cabinets are connected to the UPS, they can be placed all on one side of the UPS or stacked beneath the UPS. The installation procedures are the same as those of the UPS.