



OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT
FACILITIES DEVELOPMENT DIVISION

APPLICATION FOR OSHPD SPECIAL SEISMIC
CERTIFICATION PREAPPROVAL (OSP)

OFFICE USE ONLY
APPLICATION #: OSP - 0639

OSHPD Special Seismic Certification Preapproval (OSP)

Type: [X] New [] Renewal

Manufacturer Information

Manufacturer: Vertiv Corporation

Manufacturer's Technical Representative: Benjamin Lay

Mailing Address: 975 Pittsburgh Drive, Delaware, OH 43015

Telephone: (740) 833-8518 Email: Benjamin.Lay@vertiv.com

Product Information

Product Name: GXT5 0.5kVA to 10kVA UPS

Product Type: UPS

Product Model Number: Varies (See attachment)
(List all unique product identification numbers and/or part numbers)

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

Mounting Description: Rack mounted into base mounted rack

Applicant Information

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

Contact Person: Galen Reid

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

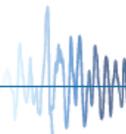
Telephone: 844-878-0200 Email: greid@structint.com

I hereby agree to reimburse the Office of Statewide Health Planning and Development review fees in
accordance with the California Administrative Code, 2016.

Signature of Applicant: [Handwritten Signature] Date: 12/30/2019

Title: Program Manager Company Name: TRU Compliance, by Structural Integrity Associates, Inc.

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





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

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

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

Name: Andrew M. Coughlin California License Number: S6082

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

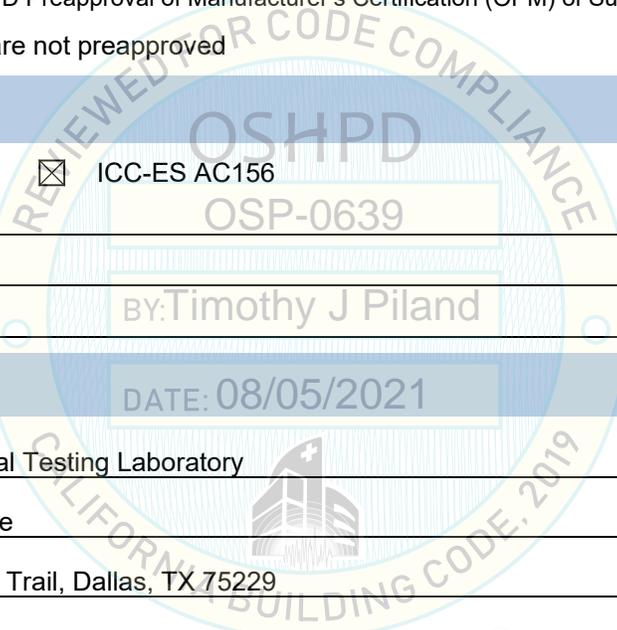
Telephone: 844-878-0200 Email: acoughlin@structint.com

Supports and Attachments Preapproval

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

Certification Method

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



Testing Laboratory

Company Name: Environmental Testing Laboratory

Contact Name: Jeremy Lange

Mailing Address: 11034 Indian Trail, Dallas, TX 75229

Telephone: (972) 247-9657 Email: jeremy@etldallas.com





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Seismic Parameters

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

Design Basis of Equipment or Components (Fp/Wp) = 1.44 (z/h = 1); 1.13 (z/h = 0)

Sds (Design spectral response acceleration at short period, g) = 2.00 (z/h = 1), 2.50 (z/h = 0)

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

Rp (Equipment or component response modification factor) = 2.5

Omega_0 (System overstrength factor) = 2.0

Ip (Importance factor) = 1.5

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

Equipment or Component Natural Frequencies (Hz) = See Attachment

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

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

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

Sds (Design spectral response acceleration at short period, g) =

Sd1 (Design spectral response acceleration at 1 second period, g) =

R (Response modification coefficient) =

Omega_0 (System overstrength factor) =

Cd (Deflection amplification factor) =

Ip (Importance factor) = 1.5

Height to Center of Gravity above base =

Equipment or Component Natural Frequencies (Hz) =

Overall dimensions and weight (or range thereof) =

Tank(s) designed in accordance with ASME BPVC, 2015: [] Yes [X] No

List of Attachments Supporting Special Seismic Certification

[X] Test Report(s) [] Drawings [] Calculations [X] Manufacturer's Catalog

[X] Other(s) (Please Specify): Product Matrices

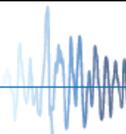
OSHPD Approval (For Office Use Only) - Approval Expires on December 31, 2025

Signature: [Signature] Date: August 5, 2021

Print Name: Timothy J. Piland Title: SSE

Special Seismic Certification Valid Up to: Sds (g) = See Above z/h = See Above

Condition of Approval (if applicable):



SPECIAL SEISMIC CERTIFICATION CERTIFIED COMPONENT MATRIX



1900509-CR-001 R3

Manufacturer: Vertiv Corporation						TABLE 1	
Model Line: GTX5							
Certified Product Construction Summary: Carbon steel enclosures							
Certified Options Summary:							
Mounting Configuration: Rack mounted - rigid in a 2-Post Seismic Rack (PN: SB85219084) Note: Installed mounting configuration must be of similar configuration and equivalent strength and stiffness to those tested.							
Building Code: CBC 2019		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	Dimensions (in)			Weight (lb)	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
GTX5 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
Note: See table 3 for equivalent listing in 4-post rack							

SPECIAL SEISMIC CERTIFICATION CERTIFIED COMPONENT MATRIX



1900509-CR-001 R3

Manufacturer: Vertiv Corporation						TABLE 1	
Model Line: GTX5							
Certified Product Construction Summary: Carbon steel enclosures							
Certified Options Summary:							
Mounting Configuration: Rack mounted - rigid in a 4-Post Seismic Rack (PN: GL840EZ-3042) Note: Installed mounting configuration must be of similar configuration and equivalent strength and stiffness to those tested.							
Building Code: CBC 2019		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	Dimensions (in)			Weight (lb)	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
GTX5 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	82		Interp.
	EBC192VRT3U	24.8	16.9	5.1	137		3F
	EBC288VRT4U	16.8	16.9	6.8	200		3G

SPECIAL SEISMIC CERTIFICATION CERTIFIED SUBCOMPONENT MATRIX

1900509-CR-001 R3



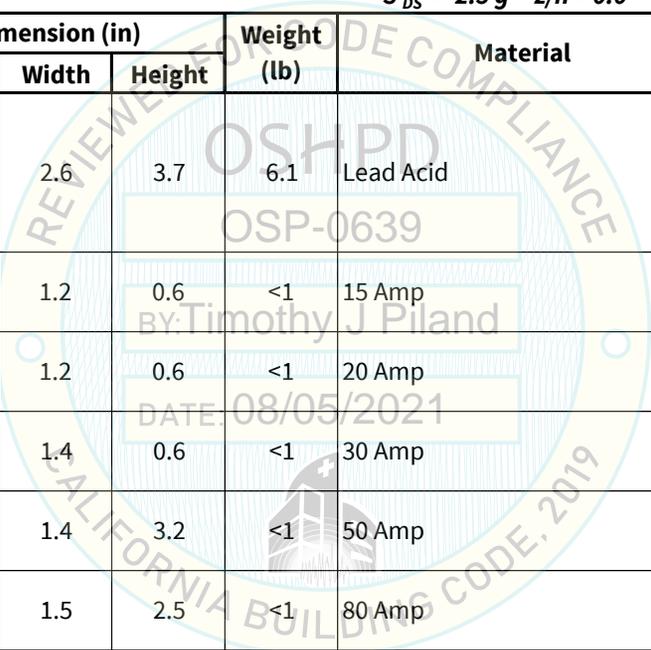
Manufacturer: Vertiv Corporation		Table Description: PODS					TABLE 2			
Model Line: GTX5		Building Code: CBC 2019					Seismic Certification Limits: $S_{DS} = 2.0g$ $z/h = 1.0$ $S_{DS} = 2.5g$ $z/h = 0.0$		$I_p = 1.5$	
Model Line (Manufacturer)	Model	Dimension (in)			Weight (lb)	Material	Notes	UUT		
		Depth	Width	Height						
Liebert Power Distribution Boxes for 5 kVA & 6kVA Models (Vertiv)	PD5-HDWR-MBS	3.4	16.9	12	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	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	5.12	10.1	Carbon Steel Casing	Hardwired	1D, 3D	

SPECIAL SEISMIC CERTIFICATION CERTIFIED SUBCOMPONENT MATRIX

1900509-CR-001 R3



Manufacturer: Vertiv Corporation		Table Description: Battery and Breakers					TABLE 4			
Model Line: GTX5		Building Code: CBC 2019					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 (Manufacturer)	Model	Dimension (in)			Weight (lb)	Material	Notes	UUT		
		Depth	Width	Height						
Lead Acid 12V (LEOCH)	DJW12-9.0	6	2.6	3.7	6.1	Lead Acid		1E, 2D, 1F, 1G, 3E, 4D, 3F, EG		
Breaker (KUOYUH)	88-15-P1B14-P100SB	1.8	1.2	0.6	<1	15 Amp		2C, 1C, 3C, 3D		
	88-20-P1B14-P100SB	1.8	1.2	0.6	<1	20 Amp		1A, 2C, 3A, 4C		
Breaker (Rongfeng)	RFLB Series	2.2	1.4	0.6	<1	30 Amp		2A, 4A		
Breaker (Shanghai Liangxin Electical CO LTD)	NDB2-63C50/2P	2.9	1.4	3.2	<1	50 Amp		1C, 3D		
	NDB3-100	2.5	1.5	2.5	<1	80 Amp		2B, 4B		



UNIT UNDER TEST (UUT) SUMMARY SHEET

1900509-CR-001 R3



Manufacturer: Vertiv Corporation						
Model Line: GTX5						
UUT	Unit Description	Report Number	Testing Laboratory	S _{DS}	z/h	I _p
1	Rack Configuration 1	15444, Rev 2	Environmental Testing Laboratory (ETL)	2.0 2.5	1 0	1.5
1A	2000LVRT2UXL (2 Post Configuration)	15444, Rev 2 (UUT1)	Environmental Testing Laboratory (ETL)	2.0 2.5	1 0	1.5
1B	10KMVRT6UXLN (2 Post Configuration)	15444, Rev 2 (UUT4)	Environmental Testing Laboratory (ETL)	2.0 2.5	1 0	1.5
1C	6KL630RT5UXLN (2 Post Configuration)	15444, Rev 2 (UUT6)	Environmental Testing Laboratory (ETL)	2.0 2.5	1 0	1.5
1D	10KHVRT5UXLN (2 Post Configuration)	15444, Rev 2 (UUT7)	Environmental Testing Laboratory (ETL)	2.0 2.5	1 0	1.5
1E	EBC48VRT2U (2 Post Configuration)	15444, Rev 2 (UUT8)	Environmental Testing Laboratory (ETL)	2.0 2.5	1 0	1.5
1F	EBC192VRT3U (2 Post Configuration)	15444, Rev 2 (UUT10)	Environmental Testing Laboratory (ETL)	2.0 2.5	1 0	1.5
1G	EBC288VRT4U (2 Post Configuration)	15444, Rev 2 (UUT11)	Environmental Testing Laboratory (ETL)	2.0 2.5	1 0	1.5
2	Rack Configuration 2	15444, Rev 2	Environmental Testing Laboratory (ETL)	2.0 2.5	1 0	1.5
2A	3000LVRT2UXL (2 Post Configuration)	15444, Rev 2 (UUT2)	Environmental Testing Laboratory (ETL)	2.0 2.5	1 0	1.5
2B	6000MVRT4UXLN (2 Post Configuration)	15444, Rev 2 (UUT3)	Environmental Testing Laboratory (ETL)	2.0 2.5	1 0	1.5
2C	3KL620RT2UXL (2 Post Configuration)	15444, Rev 2 (UUT5)	Environmental Testing Laboratory (ETL)	2.0 2.5	1 0	1.5
2D	EBC72VRT2U (2 Post Configuration)	15444, Rev 2 (UUT9)	Environmental Testing Laboratory (ETL)	2.0 2.5	1 0	1.5
3	Rack Configuration 3	1900509-TR-001 R0	Pacific Earthquake Engineering Research Center (PEER)	2.0 2.5	1 0	1.5
3A	2000LVRT2UXL (4 Post Configuration)	1900509-TR-001 R0 (UUT12)	Pacific Earthquake Engineering Research Center (PEER)	2.0 2.5	1 0	1.5
3B	10KMVRT6UXLN (4 Post Configuration)	1900509-TR-001 R0 (UUT15)	Pacific Earthquake Engineering Research Center (PEER)	2.0 2.5	1 0	1.5
Notes:						

UNIT UNDER TEST (UUT) SUMMARY SHEET

1900509-CR-001 R3



Manufacturer: Vertiv Corporation
Model Line: GTX5

UUT	Unit Description	Report Number	Testing Laboratory	S _{DS}	z/h	I _p
3C	6KL630RT5UXLN (4 Post Configuration)	1900509-TR-001 R0 (UUT17)	Pacific Earthquake Engineering Research Center (PEER)	2.0 2.5	1 0	1.5
3D	10KHVRT5UXLN (4 Post Configuration)	1900509-TR-001 R0 (UUT18)	Pacific Earthquake Engineering Research Center (PEER)	2.0 2.5	1 0	1.5
3E	EBC48VRT2U (4 Post Configuration)	1900509-TR-001 R0 (UUT19)	Pacific Earthquake Engineering Research Center (PEER)	2.0 2.5	1 0	1.5
3F	EBC192VRT3U (4 Post Configuration)	1900509-TR-001 R0 (UUT21)	Pacific Earthquake Engineering Research Center (PEER)	2.0 2.5	1 0	1.5
3G	EBC288VRT4U (4 Post Configuration)	1900509-TR-001 R0 (UUT22)	Pacific Earthquake Engineering Research Center (PEER)	2.0 2.5	1 0	1.5
4	Rack Configuration 4	15444, Rev 2	Environmental Testing Laboratory (ETL)	2.0 2.5	1 0	1.5
4A	3000LVRT2UXL (4 Post Configuration)	15444, Rev 2 (UUT13)	Environmental Testing Laboratory (ETL)	2.0 2.5	1 0	1.5
4B	6000MVRT4UXLN (4 Post Configuration)	15444, Rev 2 (UUT14)	Environmental Testing Laboratory (ETL)	2.0 2.5	1 0	1.5
4C	3KL620RT2UXL (4 Post Configuration)	15444, Rev 2 (UUT16)	Environmental Testing Laboratory (ETL)	2.0 2.5	1 0	1.5
4D	EBC72VRT2U (4 Post Configuration)	15444, Rev 2 (UUT20)	Environmental Testing Laboratory (ETL)	2.0 2.5	1 0	1.5

Notes:

UNIT UNDER TEST (UUT) SUMMARY SHEET



1900509-CR-001 R3

Manufacturer: Vertiv Corporation	UUT 1
Model Line: GTX5 - Two Post Installation	
Model Number: SB85219084	
Serial Number: N/A	

Product Construction Summary:
Welded Carbon Steel

Options/Subcomponent Summary:
2000 K Low Voltage UPS -2000LVRTUXL; 10K medium Voltage UPS - 10KMVRT6UXLN; 6K High Voltage UPS - 6KL630RT5UCLN; 10K High Voltage UPS -10KHVRR5UXLN; 48V External Battery Cabinet -EBC48VRT2U; 192 V External Battery Cabinet - EBC192VRT3U; 288V External Battery Cabinet - EBC288VRT4U

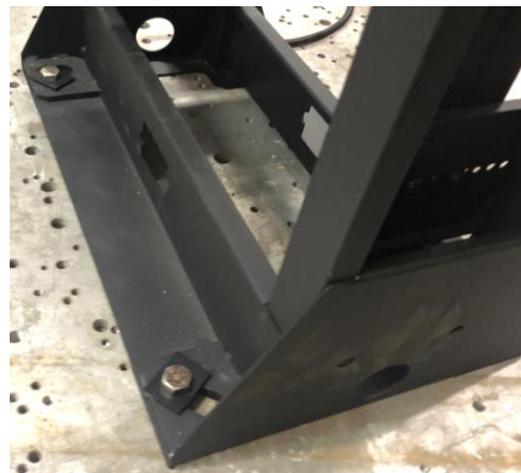
UUT Properties						
Weight (lb)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
1102	15	19	84	5.06	4.16	>33.3

UUT Highest Passed Seismic Run Information									
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 2019	ICC-ES AC156 (2010)	2.0	1.0	1.5	3.2	2.4	1.67	0.67	
		2.5	0.0						

Test Mounting Details:



- UUT1a
- UUT1b
- UUT1c
- UUT1d
- UUT1e
- UUT1f
- UUT1g



The configuration rack was mounted rigid using four (4) 5/8" - 11 Grade 8 Hex Bolts and Lock Washer and Square Washer. Unit maintained structural integrity and remained functional per manufacturer requirement. Contents were included in testing per operating conditions.

UNIT UNDER TEST (UUT) SUMMARY SHEET

1900509-CR-001 R3



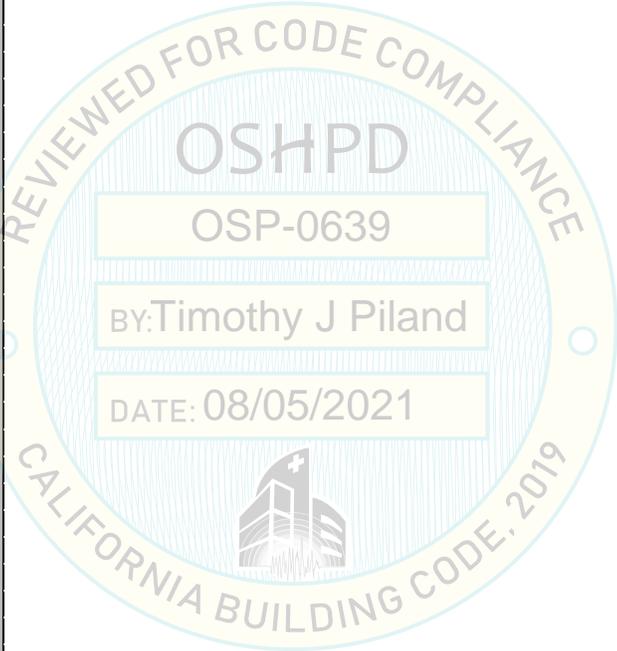
Manufacturer: Vertiv Corporation
Model Line: GTX5 - Two Post Installation
Model Number: SB85219084 **Serial Number:** N/A

UUT 1

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		15.5
5		13.75
4		12
3		10.25
2		8.5
1		6.75

Eaton 2 Post Rack Mounting Summary
 Rack Configuration Total Weight (including rack): **1102 lbs.**
 Max Rack CG: **51"**



5" Base

UNIT UNDER TEST (UUT) SUMMARY SHEET

1900509-CR-001 R3



Manufacturer: Vertiv Corporation	UUT 1a
Model Line: GTX5 - Two Post Installation	
Model Number: 2000LVRT2UXL	
Serial Number: 1909600241AFFB3	

Product Construction Summary:
Carbon steel frame and carbon steel case

Options/Subcomponent Summary:

<i>UUT Properties</i>						
Weight (lb)	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	>33.3

<i>UUT Highest Passed Seismic Run Information</i>									
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 2019	ICC-ES AC156 (2010)	2.0	1.0	1.5	3.2	2.4	1.67	0.67	
		2.5	0.0						

Test Mounting Details:



UUT 1a was mounted to a 2-Post Seismic Rack (PN: SB85219084). UUT 1a was attached to the 2-Post rack with a 2U TELECOMRKIT.
Unit maintained structural integrity and remained functional per manufacturer requirement.
Contents were included in testing per operating conditions.

UNIT UNDER TEST (UUT) SUMMARY SHEET

1900509-CR-001 R3

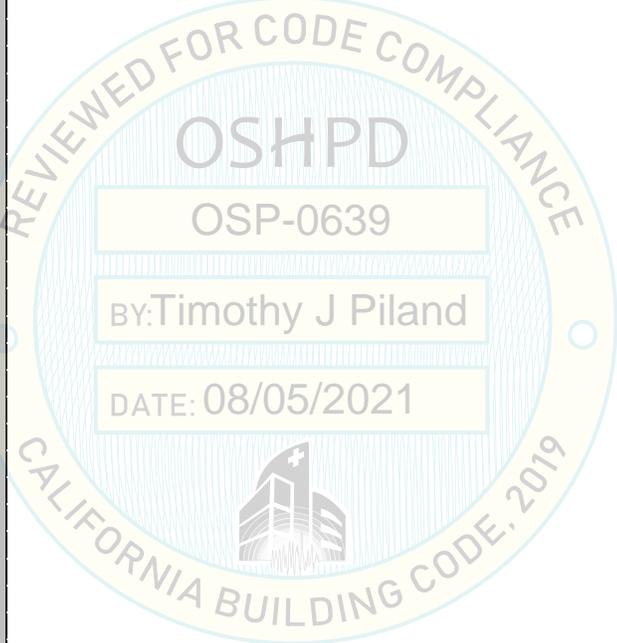


Manufacturer: Vertiv Corporation	UUT 1a
Model Line: GTX5 - Two Post Installation	
Model Number: 2000LVRT2UXL	
Serial Number: 1909600241AFFB3	

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	UUT 1c GXT5-6KL630RT	73.25
38		71.5
37		69.75
36		68
35		66.25
34	Empty	64.5
33	UUT 1f EBC192VRT3U	62.75
32		61
31		59.25
30	UUT 1d GXT5-10KHVRT	57.5
29		55.75
28		54
27		52.25
26		50.5
25	Empty	48.75
24		47
23	UUT 1b GXT5-10KMVRT	45.25
22		43.5
21		41.75
20		40
19		38.25
18		36.5
17	Empty	34.75
16		33
15	UUT 1g EBC288VRT4U	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): **1102 lbs.**
 Max Rack CG: **51"**
 Max. Installation CG Height for UUT 1a: **78.5"**



UNIT UNDER TEST (UUT) SUMMARY SHEET

1900509-CR-001 R3



Manufacturer: Vertiv Corporation	UUT 1b
Model Line: GTX5 - Two Post Installation	
Model Number: 10KMVRT6UXLN	
Serial Number: 1912700079BWFL3	

Product Construction Summary:
Carbon steel frame and carbon steel case

Options/Subcomponent Summary:
Liebert Power Distribution Boxes (PN:PD2-106), Breaker -SHANGHAI LIANGXIN ELECTRICAL CO LTD (PN:NDB2-63 C63)

<i>UUT Properties</i>						
Weight (lb)	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	>33.3

<i>UUT Highest Passed Seismic Run Information</i>									
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 2019	ICC-ES AC156 (2010)	2.0	1.0	1.5	3.2	2.4	1.67	0.67	
		2.5	0.0						

Test Mounting Details:



UUT 1b was mounted to a 2-Post Seismic Rack (PN: SB85219084). UUT 1b was attached to the 2-Post rack with a 4U/6U TELECOMRKIT.
Unit maintained structural integrity and remained functional per manufacturer requirement.
Contents were included in testing per operating conditions.

UNIT UNDER TEST (UUT) SUMMARY SHEET

1900509-CR-001 R3

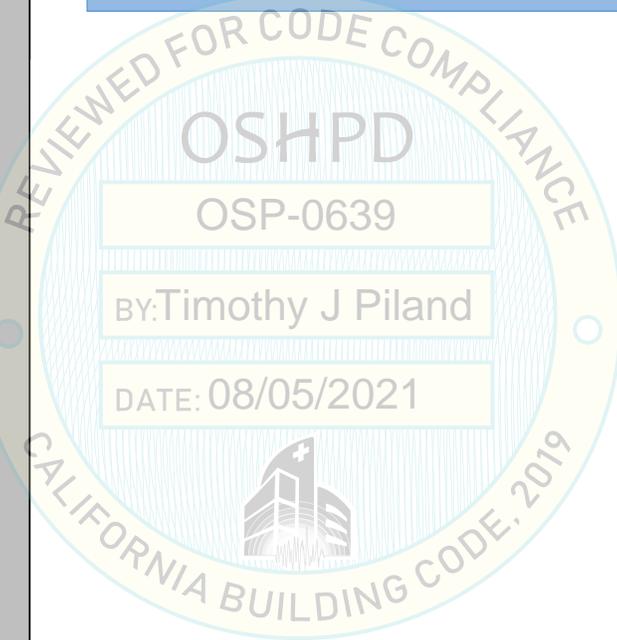


Manufacturer: Vertiv Corporation	UUT 1b
Model Line: GTX5 - Two Post Installation	
Model Number: 10KMVRT6UXLN	
Serial Number: 1912700079BWFL3	

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	UUT 1f	62.75
32	EBC192VRT3U	61
31		59.25
30	UUT 1d	57.5
29	GXT5-10KHVRT	55.75
28		54
27		52.25
26		50.5
25	Empty	48.75
24		47
23		45.25
22		43.5
21	UUT 1b	41.75
20	GXT5-10KMVRT	40
19		38.25
18		36.5
17	Empty	34.75
16		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): **1102 lbs.**
 Max Rack CG: **51"**
 Max. Installation CG Height for UUT 1b: **36.5"**



UNIT UNDER TEST (UUT) SUMMARY SHEET

1900509-CR-001 R3



Manufacturer: Vertiv Corporation	UUT 1c
Model Line: GTX5 - Two Post Installation	
Model Number: 6KL630RT5UXLN	
Serial Number: 1900700612BWGC3	

Product Construction Summary:
Carbon steel frame and carbon steel case

Options/Subcomponent Summary:
Liebert Power Distribution Boxes (PN:PD2-106), Breaker -SHANGHAI LIANGXIN ELECTRICAL CO LTD (PN: NDB2-63C50/2P)

<i>UUT Properties</i>						
Weight (lb)	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	>33.3

<i>UUT Highest Passed Seismic Run Information</i>									
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 2019	ICC-ES AC156 (2010)	2.0	1.0	1.5	3.2	2.4	1.67	0.67	
		2.5	0.0						

Test Mounting Details:



UUT 1c was mounted to a 2-Post Seismic Rack (PN: SB85219084). UUT 1c was attached to the 2-Post rack with a 4U/6U TELECOMRKIT.

Unit maintained structural integrity and remained functional per manufacturer requirement.

Contents were included in testing per operating conditions.

TRU Compliance, by Structural Integrity Associates, Inc.

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UNIT UNDER TEST (UUT) SUMMARY SHEET

1900509-CR-001 R3



Manufacturer: Vertiv Corporation
Model Line: GTX5 - Two Post Installation
Model Number: 6KL630RT5UXLN

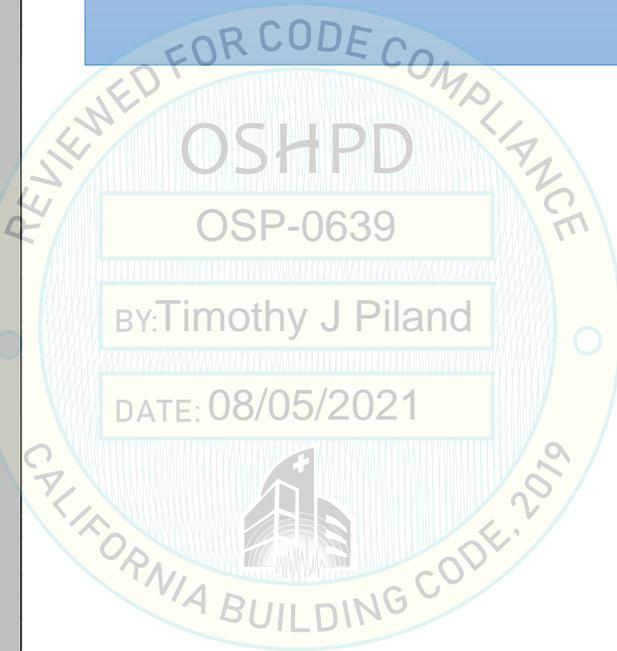
UUT 1c

Serial Number: 1900700612BWGC3

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	UUT 1c GXT5-6KL630RT	73.25
38		71.5
37		69.75
36		68
35		66.25
34	Empty	64.5
33		62.75
32	UUT 1f EBC192VRT3U	61
31		59.25
30		57.5
29	UUT 1d GXT5-10KHVRT	55.75
28		54
27		52.25
26		50.5
25	Empty	48.75
24		47
23		45.25
22		43.5
21	UUT 1b GXT5-10KMVRT	41.75
20		40
19		38.25
18		36.5
17	Empty	34.75
16		33
15		31.25
14	UUT 1g EBC288VRT4U	29.5
13		27.75
12		26
11	Empty	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): **1102lbs.**
 Max Rack CG: **51"**
 Max. Installation CG Height for UUT 1c: **56.25"**



UNIT UNDER TEST (UUT) SUMMARY SHEET

1900509-CR-001 R3



Manufacturer: Vertiv Corporation	UUT 1d
Model Line: GTX5 - Two Post Installation	
Model Number: 10KHVRT5UXLN	
Serial Number: 1835300275BWGG3	

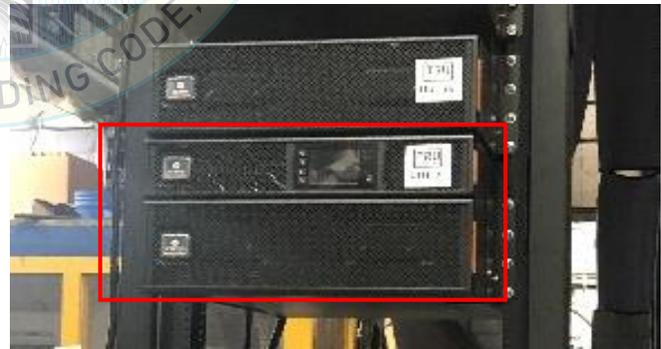
Product Construction Summary:
Carbon steel frame and carbon steel case

Options/Subcomponent Summary:
Liebert Power Distribution Boxes (PN:PD5-CE10HSWRMBSU) Breaker - SHANGHAI LIANGXIN ELECTRICAL CO LTD (PN: NDB2-63 C63)

<i>UUT Properties</i>						
Weight (lb)	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	>33.3

<i>UUT Highest Passed Seismic Run Information</i>									
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 2019	ICC-ES AC156 (2010)	2.0	1.0	1.5	3.2	2.4	1.67	0.67	
		2.5	0.0						

Test Mounting Details:



UUT 1d was mounted to a 2-Post Seismic Rack (PN: SB85219084). UUT 1d was attached to the 2-Post rack with a 4U/6UTELECOMRKIT.

Unit maintained structural integrity and remained functional per manufacturer requirement.

Contents were included in testing per operating conditions.

UNIT UNDER TEST (UUT) SUMMARY SHEET

1900509-CR-001 R3



Manufacturer: Vertiv Corporation
Model Line: GTX5 - Two Post Installation
Model Number: 10KHVRT5UXLN

UUT 1d

Serial Number: 1835300275BWGG3

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	UUT 1f	62.75
32	EBC192VRT3U	61
31		59.25
30	UUT 1d	57.5
29	GXT5-10KHVRT	55.75
28		54
27		52.25
26		50.5
25	Empty	48.75
24		47
23		45.25
22		43.5
21	UUT 1b	41.75
20	GXT5-10KMVRT	40
19		38.25
18		36.5
17	Empty	34.75
16		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): **1102lbs.**

Max Rack CG: **51"**

Max. Installation CG Height for UUT 1d: **50.5"**



UNIT UNDER TEST (UUT) SUMMARY SHEET

1900509-CR-001 R3



Manufacturer: Vertiv Corporation	UUT 1e
Model Line: GTX5 - Two Post Installation	
Model Number: EBC48VRT2U	
Serial Number: 1917500040AFM23	

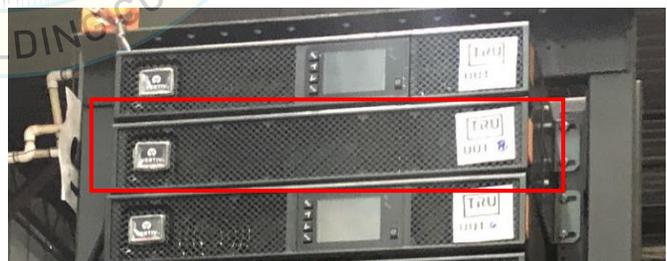
Product Construction Summary:
Carbon steel frame and carbon steel case

Options/Subcomponent Summary:
Lead Acid 12V - LEOCH (PN:DJW12-9.0)

<i>UUT Properties</i>						
Weight (lb)	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	>33.3

<i>UUT Highest Passed Seismic Run Information</i>									
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 2019	ICC-ES AC156 (2010)	2.0	1.0	1.5	3.2	2.4	1.67	0.67	
		2.5	0.0						

Test Mounting Details:



UUT 1e was mounted to a 2-Post Seismic Rack (PN: SB85219084). UUT 1e was attached to the 2-Post rack with a 2U TELECOMRKIT.
Unit maintained structural integrity and remained functional per manufacturer requirement.
Contents were included in testing per operating conditions.

UNIT UNDER TEST (UUT) SUMMARY SHEET

1900509-CR-001 R3



Manufacturer: Vertiv Corporation	UUT 1e
Model Line: GTX5 - Two Post Installation	
Model Number: EBC48VRT2U	
Serial Number: 1917500040AFM23	

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	UUT 1d	57.5
29	GXT5-10KHVRT	55.75
28		54
27		52.25
26		50.5
25	Empty	48.75
24		47
23		45.25
22		43.5
21	UUT 1b	41.75
20	GXT5-10KMVRT	40
19		38.25
18		36.5
17	Empty	34.75
16		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): **1102lbs.**
 Max Rack CG: **51"**
 Max. Installation CG Height for UUT 1e: **75"**



UNIT UNDER TEST (UUT) SUMMARY SHEET

1900509-CR-001 R3



Manufacturer: Vertiv Corporation	UUT 1f
Model Line: GTX5 - Two Post Installation	
Model Number: EBC192VRT3U	
Serial Number: 1919800429BWK93	

Product Construction Summary:
Carbon steel frame and carbon steel case

Options/Subcomponent Summary:
Lead Acid 12V - LEOCH (PN:DJW12-9.0)

UUT Properties						
Weight (lb)	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	>33.3

UUT Highest Passed Seismic Run Information									
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 2019	ICC-ES AC156 (2010)	2.0	1.0	1.5	3.2	2.4	1.67	0.67	
		2.5	0.0						

Test Mounting Details:



UUT 1f was mounted to a 2-Post Seismic Rack (PN: SB85219084). UUT 1f was attached to the 2-Post rack with a 4U/6U TELECOMRKIT.

Unit maintained structural integrity and remained functional per manufacturer requirement.

Contents were included in testing per operating conditions.

UNIT UNDER TEST (UUT) SUMMARY SHEET

1900509-CR-001 R3

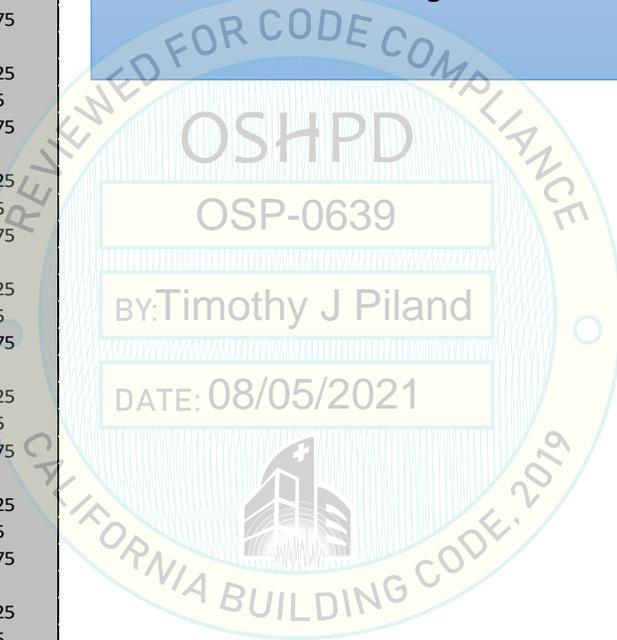


Manufacturer: Vertiv Corporation	UUT 1f
Model Line: GTX5 - Two Post Installation	
Model Number: EBC192VRT3U	
Serial Number: 1919800429BWK93	

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	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	Empty	48.75
24		47
23		45.25
22		43.5
21	UUT 1b	41.75
20	GXT5-10KMVRT	40
19		38.25
18		36.5
17	Empty	34.75
16		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): **1102 lbs.**
 Max Rack CG: **51"**
 Max. Installation CG Height for UUT 1f: **61"**



UNIT UNDER TEST (UUT) SUMMARY SHEET

1900509-CR-001 R3



Manufacturer: Vertiv Corporation	UUT 1g
Model Line: GTX5 - Two Post Installation	
Model Number: EBC288VRT4U	
Serial Number: 1917300284BWK83	

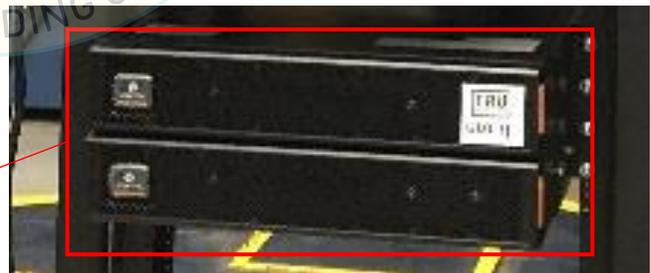
Product Construction Summary:
Carbon steel frame and carbon steel case

Options/Subcomponent Summary:
Lead Acid 12V - LEOCH (PN:DJW12-9.0)

UUT Properties						
Weight (lb)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
200	16.8	16.9	6.8	5.06	4.16	>33.3

UUT Highest Passed Seismic Run Information									
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 2019, IBC 2018	ICC-ES AC156 (2010)	2.0	1.0	1.5	3.2	2.4	1.67	0.67	
		2.5	0.0						

Test Mounting Details:



UUT 1g was mounted to a 2-Post Seismic Rack (PN: SB85219084). UUT 1g was attached to the 2-Post rack with a 4U/6U TELECOMRKIT.

Unit maintained structural integrity and remained functional per manufacturer requirement.

Contents were included in testing per operating conditions.

UNIT UNDER TEST (UUT) SUMMARY SHEET



1900509-CR-001 R3

Manufacturer: Vertiv Corporation
Model Line: GTX5 - Two Post Installation
Model Number: EBC288VRT4U

UUT 1g

Serial Number: 1917300284BWK83

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	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): **1102 lbs.**

Max Rack CG: **51"**

Max. Installation CG Height for UUT 1g: **26"**



UNIT UNDER TEST (UUT) SUMMARY SHEET

1900509-CR-001 R3



Manufacturer: Vertiv Corporation	UUT 2
Model Line: GTX5 - Two Post Installation	
Model Number: SB85219084	
Serial Number: N/A	

Product Construction Summary:
Welded Steel

Options/Subcomponent Summary:
3000 K Low Voltage UPS - 3000LVRT2UCL6K; Medium Voltage UPS - 6000MVRT4XLN3K; High Voltage UPS - 3KL620RT2UCL72V; External Battery Cabinet - EBC72VRT2U

UUT Properties						
Weight (lb)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
743	15	19	84	6.05	4.55	31.26

UUT Highest Passed Seismic Run Information									
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 2019	ICC-ES AC156 (2010)	2.0	1.0	1.5	3.2	2.4	1.67	0.67	
		2.5	0.0						

Test Mounting Details:



- UUT2a
- UUT2b
- UUT2c
- UUT2d



The configuration rack was mounted rigid using four (4) 5/8" - 11 Grade 8 Hex Bolts and Lock Washer and Square Washer. Unit maintained structural integrity and remained functional per manufacturer requirement. Contents were included in testing per operating conditions.

UNIT UNDER TEST (UUT) SUMMARY SHEET

1900509-CR-001 R3



Manufacturer: Vertiv Corporation
Model Line: GTX5 - Two Post Installation
Model Number: SB85219084
Serial Number: N/A

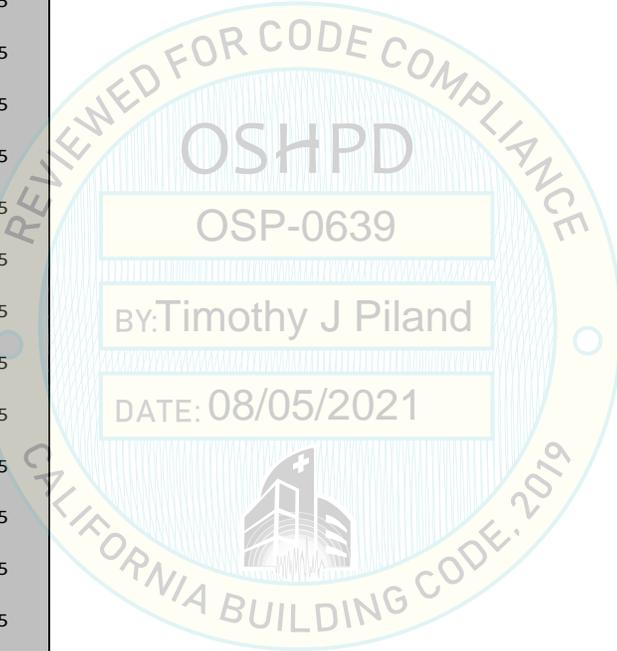
UUT 2

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	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"**



UNIT UNDER TEST (UUT) SUMMARY SHEET

1900509-CR-001 R3



Manufacturer: Vertiv Corporation	UUT 2a
Model Line: GTX5 - Two Post Installation	
Model Number: 3000LVRT2UXL	
Serial Number: 1908100034AFFE3	

Product Construction Summary:
Carbon steel frame and carbon steel case

Options/Subcomponent Summary:
Breaker - Rongfeng (PN:RFLB Series)

UUT Properties						
Weight (lb)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
66	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	I _P	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)	
CBC 2019	ICC-ES AC156 (2010)	2.0	1.0	1.5	3.2	2.4	1.67	0.67	
		2.5	0.0						

Test Mounting Details:



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

UNIT UNDER TEST (UUT) SUMMARY SHEET

1900509-CR-001 R3



Manufacturer: Vertiv Corporation
Model Line: GTX5 - Two Post Installation
Model Number: 3000LVRT2UXL

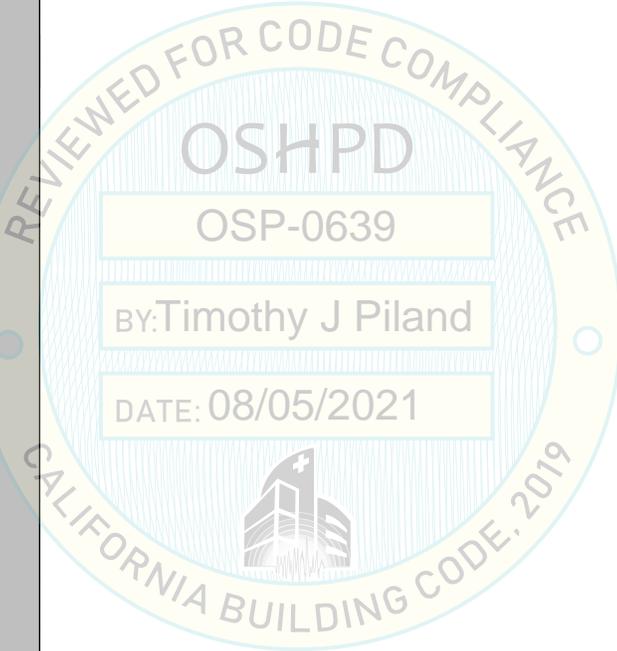
UUT 2a

Serial Number: 1908100034AFFE3

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	Empty	73.25
38		71.5
37	UUT 2c	69.75
36	GXT5-3KL620RT	68
35	Empty	66.25
34		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 UUT 2a: **78.5"**



UNIT UNDER TEST (UUT) SUMMARY SHEET

1900509-CR-001 R3



Manufacturer: Vertiv Corporation	UUT 2b
Model Line: GTX5 - Two Post Installation	
Model Number: 6000MVRT4UXLN	
Serial Number: 1919200086BWKF3	

Product Construction Summary:
Carbon steel frame and carbon steel case

Options/Subcomponent Summary:
Liebert Power Distribution Boxes (PN:PD5-006), Breaker -SHANGHAI LIANGXIN ELECTRICAL CO LTD (PN:NDB3-100),

UUT Properties

Weight (lb)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
126	26.8	16.9	6.7	5.05	4.55	31.26

UUT Highest Passed Seismic Run Information

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 2019	ICC-ES AC156 (2010)	2.0	1.0	1.5	3.2	2.4	1.67	0.67
		2.5	0.0					

Test Mounting Details:



UUT 2b was mounted to a 2-Post Seismic Rack (PN: SB85219084). UUT 2b was attached to the 2-Post rack with a 4U/6U TELECOMRKIT.

Unit maintained structural integrity and remained functional per manufacturer requirement.

Contents were included in testing per operating conditions.

UNIT UNDER TEST (UUT) SUMMARY SHEET

1900509-CR-001 R3



Manufacturer: Vertiv Corporation
Model Line: GTX5 - Two Post Installation
Model Number: 6000MVRT4UXLN

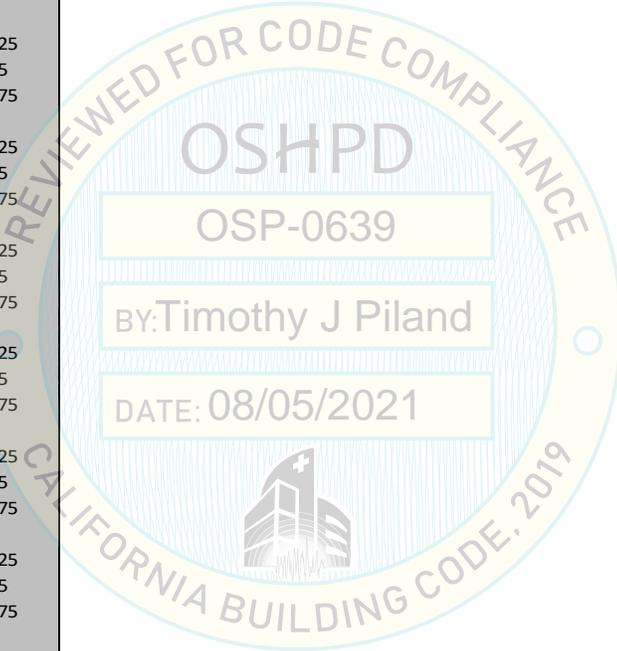
UUT 2b

Serial Number: 1919200086BWK3

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		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 UUT 2b: **57.5"**



UNIT UNDER TEST (UUT) SUMMARY SHEET

1900509-CR-001 R3



Manufacturer: Vertiv Corporation	UUT 2c
Model Line: GTX5 - Two Post Installation	
Model Number: 3KL620RT2UXL	
Serial Number: 1916900448AFG63	

Product Construction Summary:
Carbon steel frame and carbon steel case

Options/Subcomponent Summary:
Breaker -KUOYUH (PN:88-15-P1B14-P100SB)

UUT Properties

Weight (lb)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
65	21.3	16.9	3.3	5.05	4.55	31.26

UUT Highest Passed Seismic Run Information

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 2019	ICC-ES AC156 (2010)	2.0	1.0	1.5	3.2	2.4	1.67	0.67
		2.5	0.0					

Test Mounting Details:



UUT 2c was mounted to a 2-Post Seismic Rack (PN: SB85219084). UUT 2c was attached to the 2-Post rack with a 2U TELECOMRKIT.

Unit maintained structural integrity and remained functional per manufacturer requirement.

Contents were included in testing per operating conditions.

UNIT UNDER TEST (UUT) SUMMARY SHEET

1900509-CR-001 R3

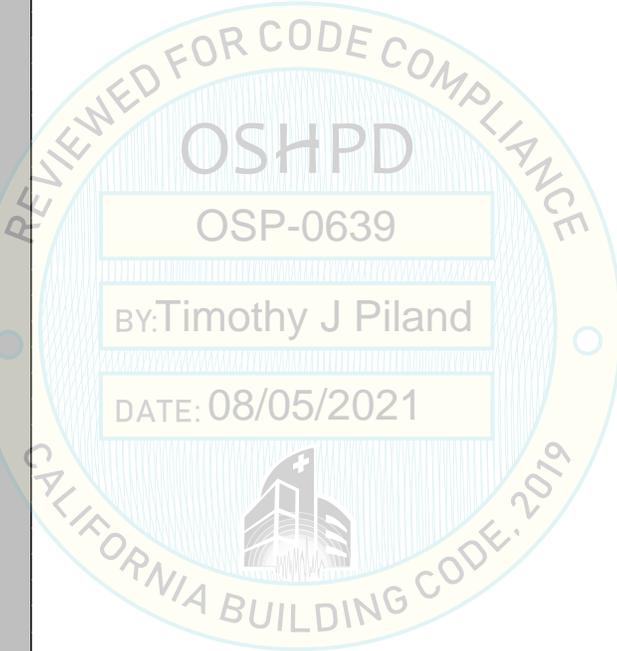


Manufacturer: Vertiv Corporation	UUT 2c
Model Line: GTX5 - Two Post Installation	
Model Number: 3KL620RT2UXL	
Serial Number: 1916900448AFG63	

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	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 UUT 2c: **68"**



UNIT UNDER TEST (UUT) SUMMARY SHEET

1900509-CR-001 R3



Manufacturer: Vertiv Corporation	UUT 2d
Model Line: GTX5 - Two Post Installation	
Model Number: EBC72VRT2U	
Serial Number: 1916900359AFM33	

Product Construction Summary:
Carbon steel frame and carbon steel case

Options/Subcomponent Summary:
Lead Acid 12V - LEOCH (PN:DJW12-9.0)

UUT Properties						
Weight (lb)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
91	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	I _P	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)	
CBC 2019	ICC-ES AC156 (2010)	2.0	1.0	1.5	3.2	2.4	1.67	0.67	
		2.5	0.0						

Test Mounting Details:



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

UNIT UNDER TEST (UUT) SUMMARY SHEET

1900509-CR-001 R3



Manufacturer: Vertiv Corporation
Model Line: GTX5 - Two Post Installation
Model Number: EBC72VRT2U

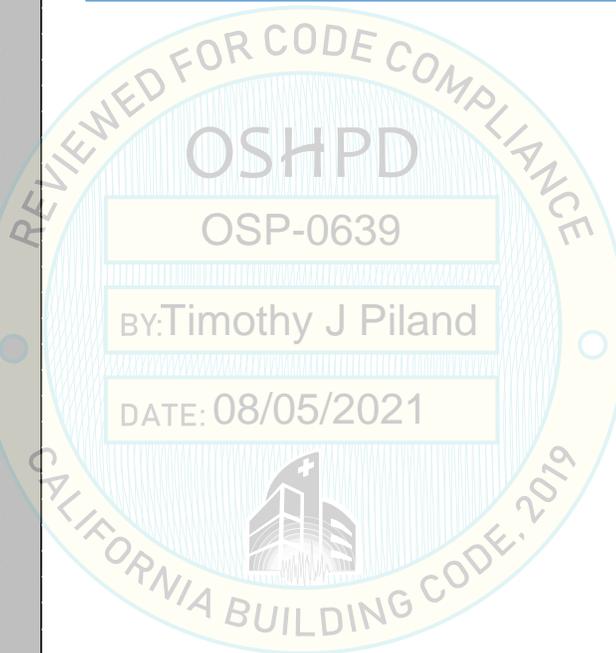
Serial Number: 1916900359AFM33

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	Empty	73.25
38		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 UUT 2d: **75"**



UNIT UNDER TEST (UUT) SUMMARY SHEET



1900509-CR-001 R3

Manufacturer: Vertiv Corporation	UUT 3
Model Line: GTX5 - Four Post Installation	
Model Number: GL840EZ-3042	
Serial Number: N/A	

Product Construction Summary:
Carbon Steel Frame and Skins

Options/Subcomponent Summary:
2000 K Low Voltage UPS - 2000LVRTUXL; 10K medium Voltage UPS - 10KHVRR5UXLN; 6K High Voltage UPS - 6KL630RT5UCLN; 10 K High Voltage UPS - 10KHVRR5UXLN; 48V External Battery Cabinet - EBC48VRT2U; 192 V External Battery Cabinet - EBC192VRT3U; 288V External Battery Cabinet - EBC288VRT4U

UUT Properties						
Weight (lb)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
1457	42	30	84	8.97	4.68	>33.3

UUT Highest Passed Seismic Run Information									
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 2019	ICC-ES AC156 (2010)	2.0	1.0	1.5	3.2	2.4	1.67	0.67	
		2.5	0.0						

Test Mounting Details:



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



The configuration rack was mounted rigid using four (4) 5/8" - 11 Grade 8 Hex Bolts and Lock Washer and Square Washer. Unit maintained structural integrity and remained functional per manufacturer requirement. Doors sesimically modified with a #12 self tapping screw.
Unit maintained structural integrity and remained functional per manufacturer requirement.
Contents were included in testing per operating conditions.

UNIT UNDER TEST (UUT) SUMMARY SHEET

1900509-CR-001 R3



Manufacturer: Vertiv Corporation
Model Line: GTX5 - Four Post Installation
Model Number: GL840EZ-3042

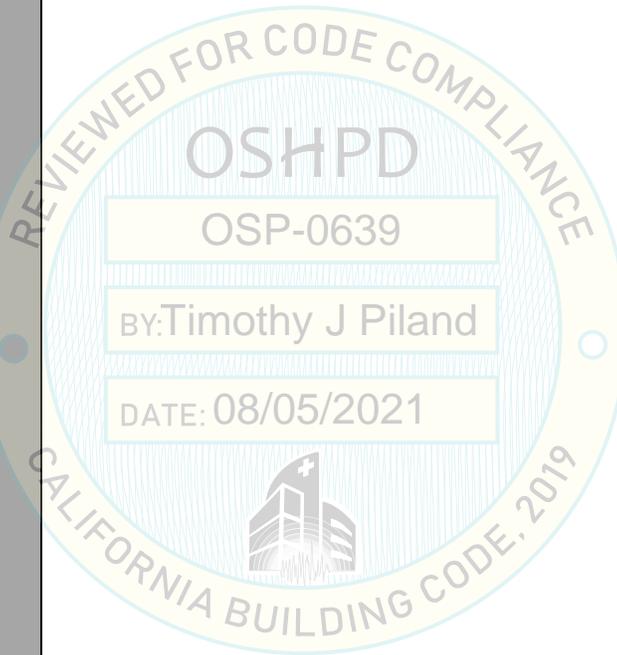
Serial Number: N/A

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

Great Lakes 4 Post Rack Mounting Summary
 Rack Configuration Total Weight (including rack): **1457 lbs.**
 Max Rack CG: **39.1"**



4 Inches

UNIT UNDER TEST (UUT) SUMMARY SHEET

1900509-CR-001 R3



Manufacturer: Vertiv Corporation	UUT 3a
Model Line: GTX5 - Four Post Installation	
Model Number: 2000LVRTUXXL	
Serial Number: 1924800091AFFB3	

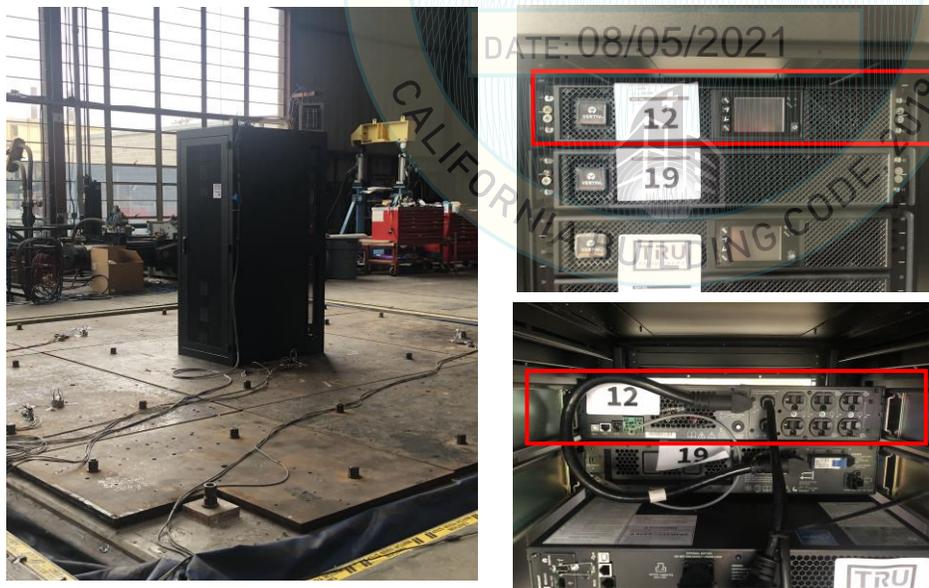
Product Construction Summary:
Carbon steel frame and carbon steel case

Options/Subcomponent Summary:

UUT Properties						
Weight (lb)	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	>33.3

UUT Highest Passed Seismic Run Information									
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 2019	ICC-ES AC156 (2010)	2.0	1.0	1.5	3.2	2.4	1.67	0.67	
		2.5	0.0						

Test Mounting Details:



UUT 3a was mounted within a 4-Post Seismic Rack (PN: GL840EZ-3042). UUT 3a was mounted to the 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.
Contents were included in testing per operating conditions.

UNIT UNDER TEST (UUT) SUMMARY SHEET

1900509-CR-001 R3



Manufacturer: Vertiv Corporation
Model Line: GTX5 - Four Post Installation
Model Number: 2000LVRTUXL

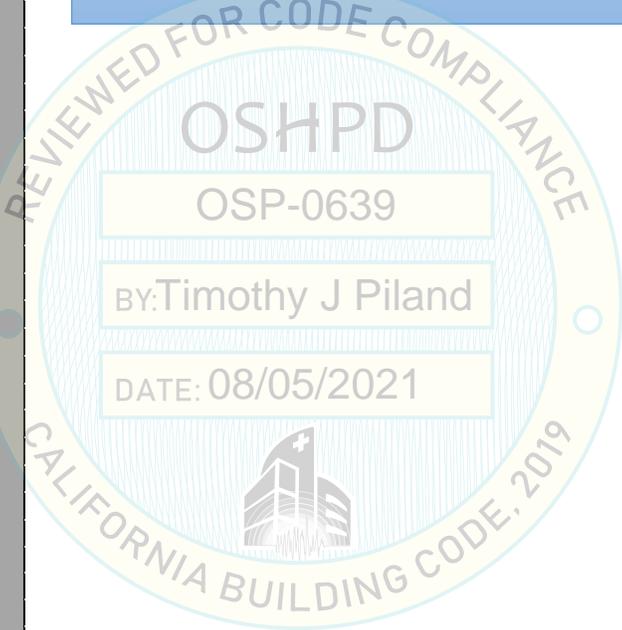
Serial Number: 1924800091AFFB3

UUT 3a

Rack Mounted Summary:

Rack Configuration 3: <i>4 Post GL 840 EZ</i>		
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	UUT 3d	30.25
14	GXT5-10KHVRT	28.5
13		26.75
12		25
11		23.25
10		21.5
9	UUT 3b	19.75
8	GXT5-10KMVRT	18
7		16.25
6		14.5
5		12.75
4	UUT 3g	11
3	GXT5-EBC288VRT	9.25
2		7.5
1		5.75
4 Inches		

Great Lakes 4 Post Rack Mounting Summary
 Rack Configuration Total Weight (including rack): **1457 lbs.**
 Max Rack CG: **39.1"**
 Max. Installation CG Height for UUT 3a: **79.25"**



UNIT UNDER TEST (UUT) SUMMARY SHEET

1900509-CR-001 R3



Manufacturer: Vertiv Corporation	UUT 3b
Model Line: GTX5 - Four Post Installation	
Model Number: 10KMVRT6UXLN	
Serial Number: 1923800838BWFL3	

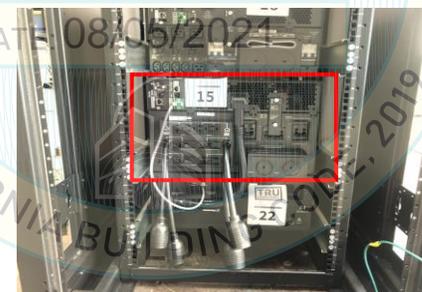
Product Construction Summary:
Carbon steel frame and carbon steel case

Options/Subcomponent Summary:
Liebert Power Distribution Boxes (PN:PD2-106), Breaker -SHANGHAI LIANGXIN ELECTRICAL CO LTD (PN:NDB2-63 C63)

<i>UUT Properties</i>						
Weight (lb)	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	>33.3

<i>UUT Highest Passed Seismic Run Information</i>									
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 2019	ICC-ES AC156 (2010)	2.0	1.0	1.5	3.2	2.4	1.67	0.67	
		2.5	0.0						

Test Mounting Details: BY: Timothy J Piland



UUT 3b was mounted within a 4-Post Seismic Rack (PN: GL840EZ-3042). UUT 3b was mounted to the 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. Contents were included in testing per operating conditions.

UNIT UNDER TEST (UUT) SUMMARY SHEET

1900509-CR-001 R3



Manufacturer: Vertiv Corporation	UUT 3b
Model Line: GTX5 - Four Post Installation	
Model Number: 10KMVRT6UXLN	
Serial Number: 1923800838BWFL3	

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): **1457 lbs.**
 Max Rack CG: **39.1"**
 Max. Installation CG Height for UUT 3b: **16.25"**



UNIT UNDER TEST (UUT) SUMMARY SHEET



1900509-CR-001 R3

Manufacturer: Vertiv Corporation	UUT 3c
Model Line: GTX5 - Four Post Installation	
Model Number: 6KL630RT5UXLN	
Serial Number: 1921900561BWGG3	

Product Construction Summary:
Carbon steel frame and carbon steel case

Options/Subcomponent Summary:
Liebert Power Distribution Boxes (PN:PD5-CE10HSWRMBSU) Breaker - SHANGHAI LIANGXIN ELECTRICAL CO LTD (PN: NDB2-63 C63)

<i>UUT Properties</i>						
Weight (lb)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
158	24.9	16.9	8.5	8.97	4.68	>33.3

<i>UUT Highest Passed Seismic Run Information</i>									
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 2019	ICC-ES AC156 (2010)	2.0	1.0	1.5	3.2	2.4	1.67	0.67	
		2.5	0.0						

Test Mounting Details:



UUT 3c was mounted within a 4-Post Seismic Rack (PN: GL840EZ-3042). UUT 3c was mounted to the 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. Contents were included in testing per operating conditions.

UNIT UNDER TEST (UUT) SUMMARY SHEET

1900509-CR-001 R3

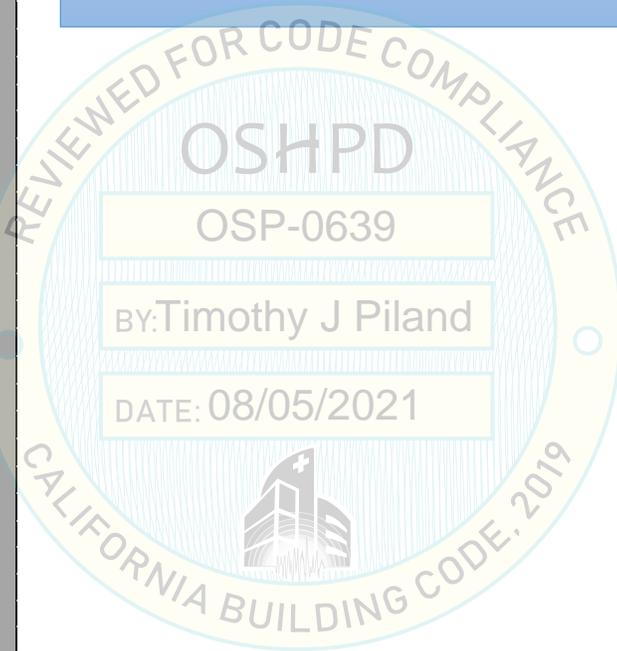


Manufacturer: Vertiv Corporation	UUT 3c
Model Line: GTX5 - Four Post Installation	
Model Number: 6KL630RT5UXLN	
Serial Number: 1921900561BWGG3	

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): **1457 lbs.**
 Max Rack CG: **39.1"**
 Max. Installation CG Height for UUT 3c: **69.63"**



UNIT UNDER TEST (UUT) SUMMARY SHEET

1900509-CR-001 R3



Manufacturer: Vertiv Corporation	UUT 3d
Model Line: GTX5 - Four Post Installation	
Model Number: 10KHVRRUXLN	
Serial Number: 1835300277BWGG3	

Product Construction Summary:
Carbon steel frame and carbon steel case

Options/Subcomponent Summary:
Liebert Power Distribution Boxes (PN:PD5-CE10HSWRMBSU) Breaker - SHANGHAI LIANGXIN ELECTRICAL CO LTD (PN: NDB2-63 C63)

<i>UUT Properties</i>						
Weight (lb)	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	>33.3

<i>UUT Highest Passed Seismic Run Information</i>									
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 2019	ICC-ES AC156 (2010)	2.0	1.0	1.5	3.2	2.4	1.67	0.67	
		2.5	0.0						

Test Mounting Details:



UUT 3d was mounted within a 4-Post Seismic Rack (PN: GL840EZ-3042). UUT 3d was mounted to the 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. Contents were included in testing per operating conditions.

UNIT UNDER TEST (UUT) SUMMARY SHEET

1900509-CR-001 R3



Manufacturer: Vertiv Corporation
Model Line: GTX5 - Four Post Installation
Model Number: 10KHVRRUXLN

Serial Number: 1835300277BWGG3

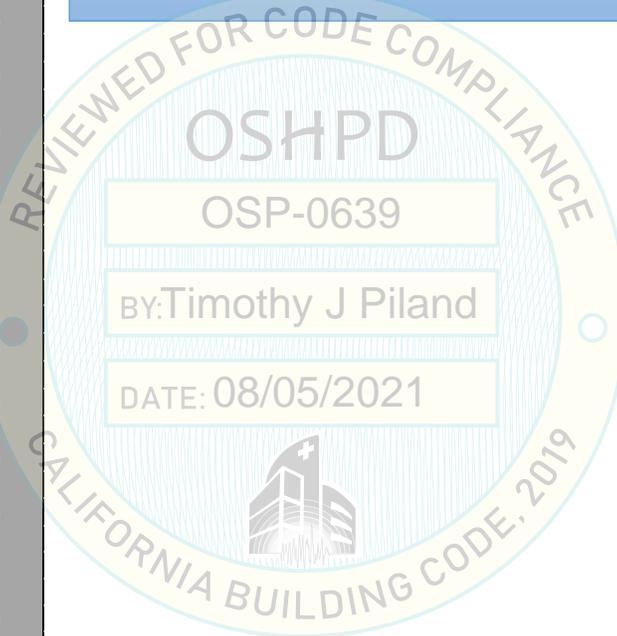
UUT 3d

Rack Mounted Summary:

Rack Configuration 3: 4 Post GL 840 EZ	
Position on Rack	Position on Rack
45	Empty
44	UUT 3a
43	GXT5-2000LVRT
42	UUT 3e
41	EBC48VRT2U
40	
39	UUT 3c
38	GXT5-6KL630RT
37	
36	
35	UUT 3f
34	EBC192VRT3U
33	
32	
31	
30	
29	
28	
27	
26	
25	
24	Empty
23	
22	
21	
20	
19	
18	
17	
16	
15	
14	UUT 3d
13	GXT5-10KHVRT
12	
11	
10	
9	UUT 3b
8	GXT5-10KMVRT
7	
6	
5	
4	UUT 3g
3	GXT5-EBC288VRT
2	
1	

4 Inches

Great Lakes 4 Post Rack Mounting Summary
 Rack Configuration Total Weight (including rack): **1457 lbs.**
 Max Rack CG: **39.1"**
 Max. Installation CG Height for UUT 3d: **25.88"**



UNIT UNDER TEST (UUT) SUMMARY SHEET

1900509-CR-001 R3



Manufacturer: Vertiv Corporation	UUT 3e
Model Line: GTX5 - Four Post Installation	
Model Number: EBC48VRT2U	
Serial Number: 1923800417AFM23	

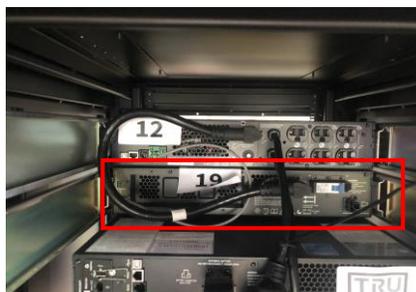
Product Construction Summary:
Carbon steel frame and carbon steel case

Options/Subcomponent Summary:
Lead Acid 12V - LEOCH (PN:DJW12-9.0)

<i>UUT Properties</i>						
Weight (lb)	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	>33.3

<i>UUT Highest Passed Seismic Run Information</i>									
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 2019	ICC-ES AC156 (2010)	2.0	1.0	1.5	3.2	2.4	1.67	0.67	
		2.5	0.0						

Test Mounting Details:



UUT 3e was mounted within a 4-Post Seismic Rack (PN: GL840EZ-3042). UUT 3e was mounted to the 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. Contents were included in testing per operating conditions.

UNIT UNDER TEST (UUT) SUMMARY SHEET

1900509-CR-001 R3



Manufacturer: Vertiv Corporation
Model Line: GTX5 - Four Post Installation
Model Number: EBC48VRT2U

Serial Number: 1923800417AFM23

UUT 3e

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	UUT 3b	19.75
8	GXT5-10KMVRT	18
7		16.25
6		14.5
5		12.75
4	UUT 3g	11
3	GXT5-EBC288VRT	9.25
2		7.5
1		5.75

4 Inches

Great Lakes 4 Post Rack Mounting Summary
 Rack Configuration Total Weight (including rack): **1457 lbs.**
 Max Rack CG: **39.1"**
 Max. Installation CG Height for UUT 3e: **75.75"**



UNIT UNDER TEST (UUT) SUMMARY SHEET

1900509-CR-001 R3



Manufacturer: Vertiv Corporation	UUT 3f
Model Line: GTX5 - Four Post Installation	
Model Number: EBC192VRT4U	
Serial Number: 1919800560BWK93	

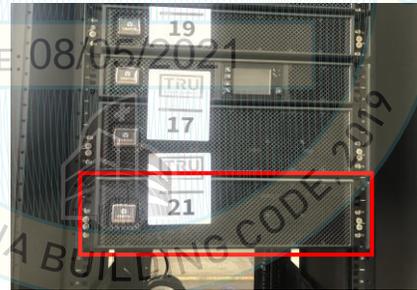
Product Construction Summary:
Carbon steel frame and carbon steel case

Options/Subcomponent Summary:
Lead Acid 12V - LEOCH (PN:DJW12-9.0)

<i>UUT Properties</i>						
Weight (lb)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
137	24.8	16.9	5.1	8.97	4.68	>33.3

<i>UUT Highest Passed Seismic Run Information</i>									
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 2019	ICC-ES AC156 (2010)	2.0	1.0	1.5	3.2	2.4	1.67	0.67	
		2.5	0.0						

Test Mounting Details:



UUT 3f was mounted within a 4-Post Seismic Rack (PN: GL840EZ-3042). UUT 3f was mounted to the 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. Contents were included in testing per operating conditions.

UNIT UNDER TEST (UUT) SUMMARY SHEET

1900509-CR-001 R3



Manufacturer: Vertiv Corporation
Model Line: GTX5 - Four Post Installation
Model Number: EBC192VRT4U

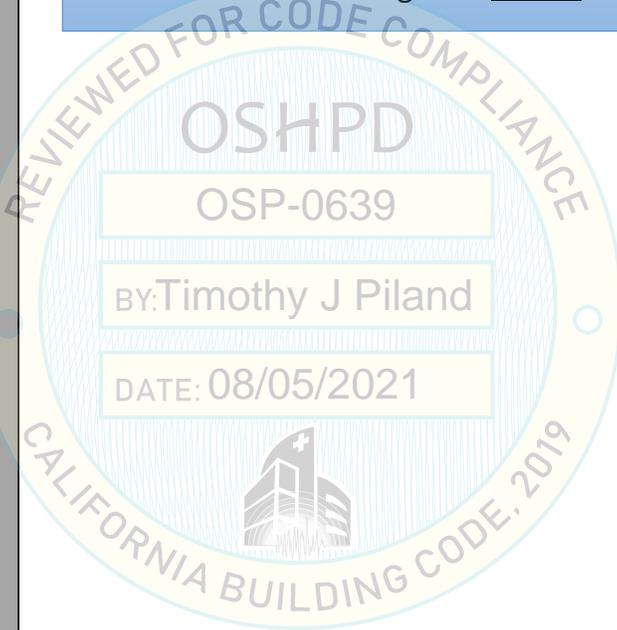
UUT 3f

Serial Number: 1919800560BWK93

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): **1457 lbs.**
 Max Rack CG: **39.1"**
 Max. Installation CG Height for UUT 3f: **62.63"**



UNIT UNDER TEST (UUT) SUMMARY SHEET



1900509-CR-001 R3

Manufacturer: Vertiv Corporation	UUT 3g
Model Line: GTX5 - Four Post Installation	
Model Number: EBC288VRT6U	
Serial Number: 1922900805BWK83	

Product Construction Summary:
Carbon steel frame and carbon steel case

Options/Subcomponent Summary:
Lead Acid 12V - LEOCH (PN:DJW12-9.0)

UUT Properties

Weight (lb)	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	>33.3

UUT Highest Passed Seismic Run Information

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 2019	ICC-ES AC156 (2010)	2.0	1.0	1.5	3.2	2.4	1.67	0.67
		2.5	0.0					

Test Mounting Details:

BY: Timothy J Piland

DATE: 08/05/2021



UUT 3g was mounted within a 4-Post Seismic Rack (PN: GL840EZ-3042). UUT 3g was mounted to the 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.
Contents were included in testing per operating conditions.

UNIT UNDER TEST (UUT) SUMMARY SHEET

1900509-CR-001 R3



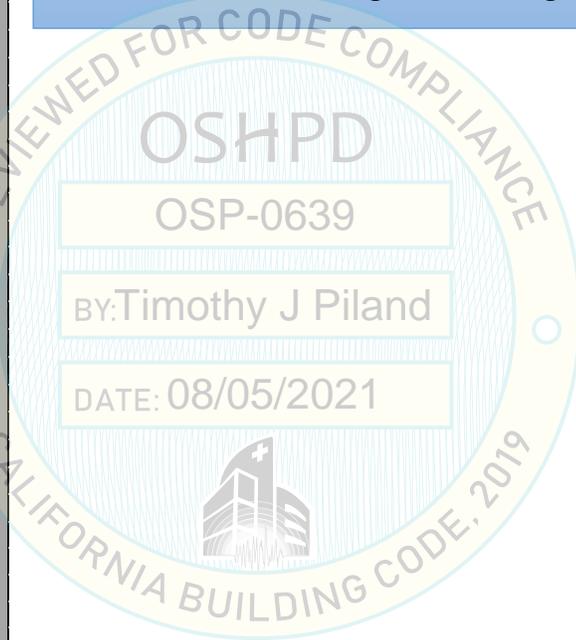
Manufacturer:	Vertiv Corporation	UUT 3g
Model Line:	GTX5 - Four Post Installation	
Model Number:	EBC288VRT6U	
		Serial Number: 1922900805BWK83

Rack Mounted Summary:

Rack Configuration 3: <i>4 Post GL 840 EZ</i>		
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	UUT 3g	11
3	GXT5-EBC288VRT	9.25
2		7.5
1		5.75

4 Inches

Great Lakes 4 Post Rack Mounting Summary
 Rack Configuration Total Weight (including rack): **1457 lbs.**
 Max Rack CG: **39.1"**
 Max. Installation CG Height for UUT 3g: **7.5"**



UNIT UNDER TEST (UUT) SUMMARY SHEET

1900509-CR-001 R3



Manufacturer: Vertiv Corporation	UUT 4
Model Line: GTX5 - Four Post Installation	
Model Number: GL840EZ-3042	
Serial Number: N/A	

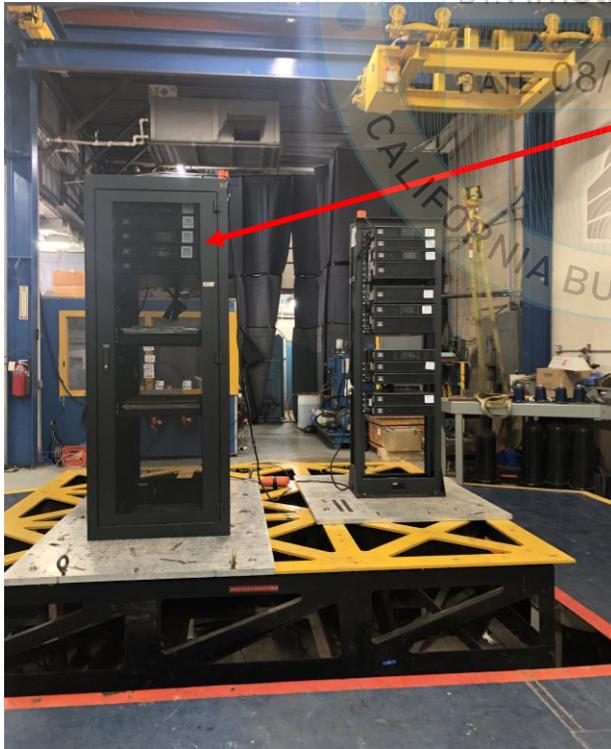
Product Construction Summary:
Carbon Steel Frame and Skins

Options/Subcomponent Summary:
3000 K Low Voltage UPS - 3000LVRT2UCL; 6K Medium Voltage UPS - 6KL630RT5UCLN; 3K High Voltage UPS - 3KL620RT2U;
CL 72V External Battery Cabinet - EBC72VRT2U

<i>UUT Properties</i>						
Weight (lb)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
1384	42	30	84	7.52	4.82	>33.3

<i>UUT Highest Passed Seismic Run Information</i>									
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 2019	ICC-ES AC156 (2010)	2.0	1.0	1.5	3.2	2.4	1.67	0.67	
		2.5	0.0						

Test Mounting Details:



- UUT4a
- UUT4b
- UUT4c
- UUT4d



UUT 4 was mounted rigid using four (4) 5/8" - 11 Grade 8 Hex Bolts and Lock Washer and Square Washer. Doors sesimically modified with a #12 self tapping screw.
Unit maintained structural integrity and remained functional per manufacturer requirement.
Contents were included in testing per operating conditions.

UNIT UNDER TEST (UUT) SUMMARY SHEET

1900509-CR-001 R3



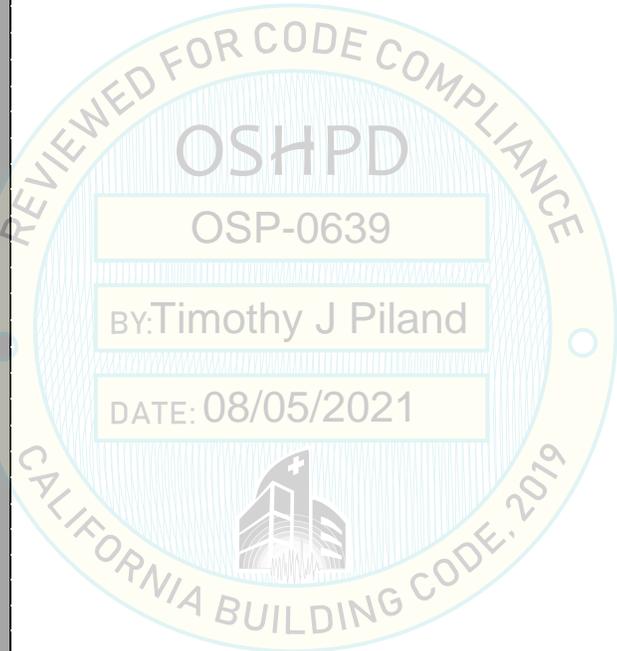
Manufacturer: Vertiv Corporation
Model Line: GTX5 - Four Post Installation
Model Number: GL840EZ-3042
Serial Number: N/A

UUT 4

Rack Mounted Summary:

Rack Configuration 4: 4 Post GL 840 EZ		
Position on Rack		Position on Rack
45	Empty	32.75
44	UUT4a	31
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

Great Lakes 4 Post Rack Mounting Summary
 Rack Configuration Total Weight (including rack): **1384 lbs.**
 Max Rack CG: **50"**



4 Inches

UNIT UNDER TEST (UUT) SUMMARY SHEET

1900509-CR-001 R3



Manufacturer: Vertiv Corporation	UUT 4a
Model Line: GTX5 - Four Post Installation	
Model Number: 3000LVRT2UXL	
Serial Number: 1907500282AFFE3	

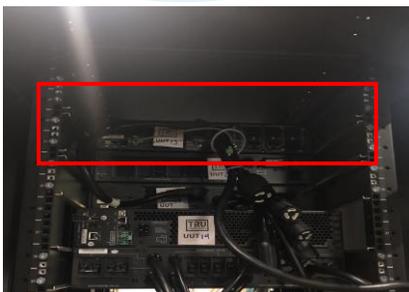
Product Construction Summary:
Carbon steel frame and carbon steel case

Options/Subcomponent Summary:

<i>UUT Properties</i>						
Weight (lb)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
66	21.3	16.9	3.3	7.52	4.82	>33.3

<i>UUT Highest Passed Seismic Run Information</i>									
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 2019	ICC-ES AC156 (2010)	2.0	1.0	1.5	3.2	2.4	1.67	0.67	
		2.5	0.0						

Test Mounting Details:



UUT 4a was mounted within a 4-Post Seismic Rack (PN: GL840EZ-3042). UUT 4a was mounted to the 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. Contents were included in testing per operating conditions.

UNIT UNDER TEST (UUT) SUMMARY SHEET

1900509-CR-001 R3



Manufacturer: Vertiv Corporation	UUT 4a
Model Line: GTX5 - Four Post Installation	
Model Number: 3000LVRT2UXL	
Serial Number: 1907500282AFFE3	

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): **1384 lbs.**
 Max Rack CG: **50"**
 Max. Installation CG Height for UUT 4a: **79.25"**



UNIT UNDER TEST (UUT) SUMMARY SHEET

1900509-CR-001 R3



Manufacturer: Vertiv Corporation	UUT 4b
Model Line: GTX5 - Four Post Installation	
Model Number: 6KL630RT5UCLN	
Serial Number: 1919200098BWK3	

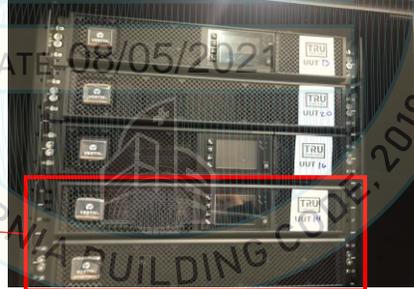
Product Construction Summary:
Carbon steel frame and carbon steel case

Options/Subcomponent Summary:

UUT Properties						
Weight (lb)	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	>33.3

UUT Highest Passed Seismic Run Information									
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 2019	ICC-ES AC156 (2010)	2.0	1.0	1.5	3.2	2.4	1.67	0.67	
		2.5	0.0						

Test Mounting Details:



UUT 4b was mounted within a 4-Post Seismic Rack (PN: GL840EZ-3042). UUT 4b was mounted to the 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. Contents were included in testing per operating conditions.

UNIT UNDER TEST (UUT) SUMMARY SHEET

1900509-CR-001 R3



Manufacturer: Vertiv Corporation
Model Line: GTX5 - Four Post Installation
Model Number: 6KL630RT5UCLN

Serial Number: 1919200098BWK3

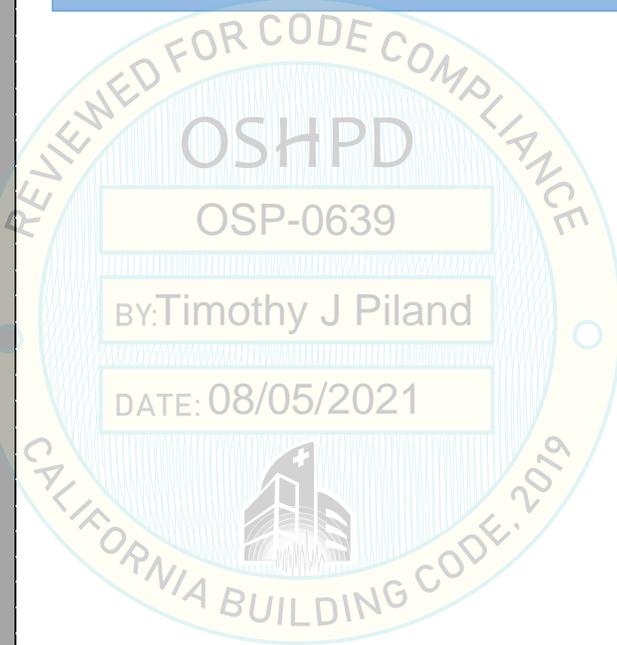
UUT 4b

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	UUT 4b GXT5-6000MVRT4UXLN	70.5
37		68.75
36		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): **1384 lbs.**
 Max Rack CG: **50"**
 Max. Installation CG Height for UUT 4b: **67"**



UNIT UNDER TEST (UUT) SUMMARY SHEET



1900509-CR-001 R3

Manufacturer: Vertiv Corporation	UUT 4c
Model Line: GTX5 - Four Post Installation	
Model Number: 3KL620RT2UCL	
Serial Number: 1916900447AFG63	

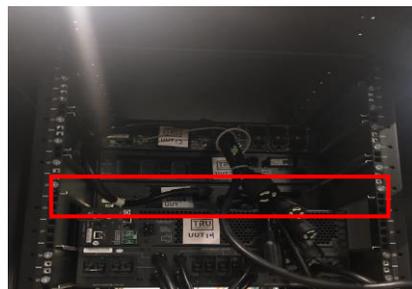
Product Construction Summary:
Carbon steel frame and carbon steel case

Options/Subcomponent Summary:

UUT Properties						
Weight (lb)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
65	21.3	16.9	3.3	7.52	4.82	>33.3

UUT Highest Passed Seismic Run Information									
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 2019	ICC-ES AC156 (2010)	2.0	1.0	1.5	3.2	2.4	1.67	0.67	
		2.5	0.0						

Test Mounting Details:



UUT 4c was mounted within a 4-Post Seismic Rack (PN: GL840EZ-3042). UUT 4c was mounted to the 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.
Contents were included in testing per operating conditions.

UNIT UNDER TEST (UUT) SUMMARY SHEET

1900509-CR-001 R3



Manufacturer: Vertiv Corporation	UUT 4c
Model Line: GTX5 - Four Post Installation	
Model Number: 3KL620RT2UCL	
Serial Number: 1916900447AFG63	

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): **1384 lbs.**
 Max Rack CG: **50"**
 Max. Installation CG Height for UUT 4c: **72.25"**



UNIT UNDER TEST (UUT) SUMMARY SHEET

1900509-CR-001 R3



Manufacturer: Vertiv Corporation	UUT 4d
Model Line: GTX5 - Four Post Installation	
Model Number: EBC72VRT2U	
Serial Number: 1916900363AFM33	

Product Construction Summary:
Carbon steel frame and carbon steel case

Options/Subcomponent Summary:

UUT Properties						
Weight (lb)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
91	21.3	16.9	3.3	7.52	4.82	>33.3

UUT Highest Passed Seismic Run Information									
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 2019	ICC-ES AC156 (2010)	2.0	1.0	1.5	3.2	2.4	1.67	0.67	
		2.5	0.0						

Test Mounting Details:



UUT 4d was mounted within a 4-Post Seismic Rack (PN: GL840EZ-3042). UUT 4d was mounted to the 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.
Contents were included in testing per operating conditions.

UNIT UNDER TEST (UUT) SUMMARY SHEET

1900509-CR-001 R3

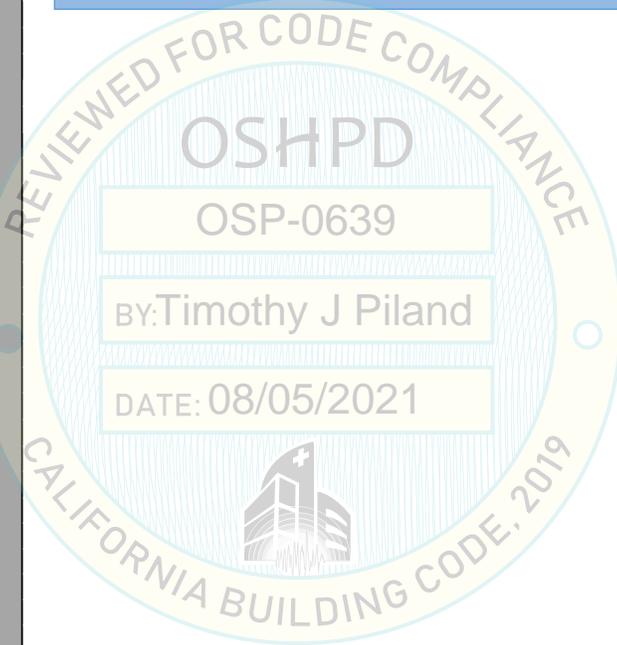


Manufacturer: Vertiv Corporation	UUT 4d
Model Line: GTX5 - Four Post Installation	
Model Number: EBC72VRT2U	
Serial Number: 1916900363AFM33	

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): **1384 lbs.**
 Max Rack CG: **50"**
 Max. Installation CG Height for UUT 4d: **75.75"**



UNIT UNDER TEST (UUT) SUMMARY SHEET

1900509-CR-001 R3



B-Line Two-Post Relay Rack Details

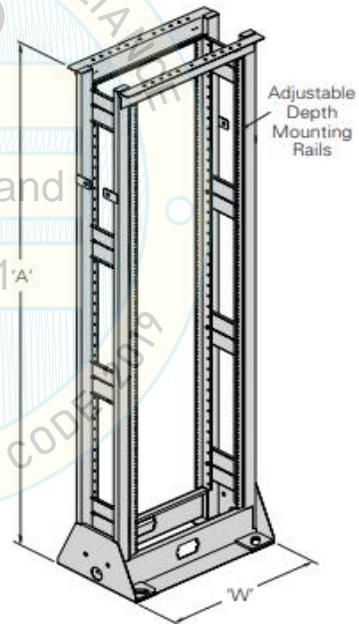
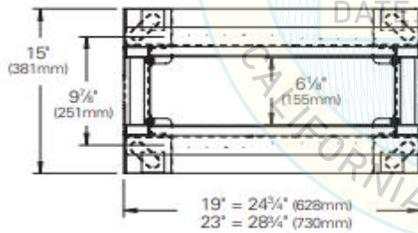
Network Equipment Racks & Accessories

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)

Network equipment racks & accessories



Part Number	'A' Height In. (mm)	'W' Spacing In. (mm)	Mounting Spaces	Shipping Weight Lbs. (kg)
19" (482mm) Rack Width				
SB85219084	84" (2133)	24 3/4" (628)	43	113 (51.3)
SB85219096	96" (2438)	24 1/4" (628)	43	124 (56.2)
23" (584mm) Rack Width				
SB85223084	84" (2133)	28 1/4" (730)	43	117 (53.1)
SB85223096	96" (2438)	28 1/4" (730)	43	127 (57.6)

Specify part number and finish when ordering.

UNIT UNDER TEST (UUT) SUMMARY SHEET

1900509-CR-001 R3



B-Line Two-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.



DATE: 08/05/2021

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

UNIT UNDER TEST (UUT) SUMMARY SHEET

1900509-CR-001 R3



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

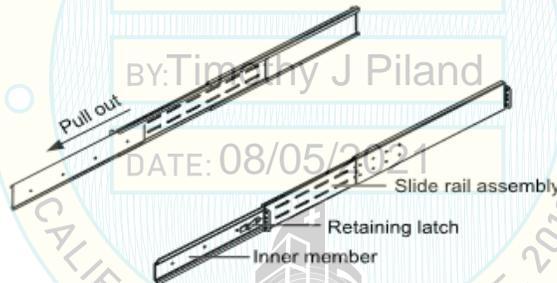
To install a Liebert GXT3 rack/tower UPS or battery cabinet in a rack:

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

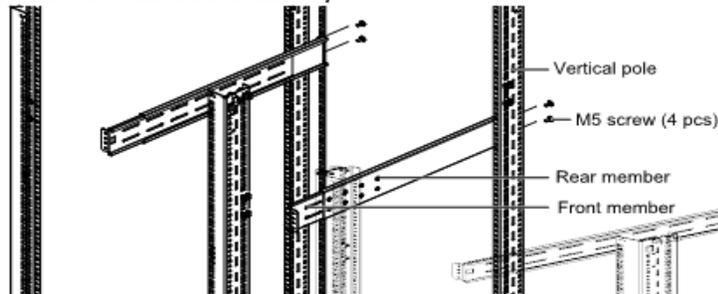


3. Determine the UPS and/or battery cabinet's mounting position inside the rack's vertical rails.

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

UNIT UNDER TEST (UUT) SUMMARY SHEET

1900509-CR-001 R3

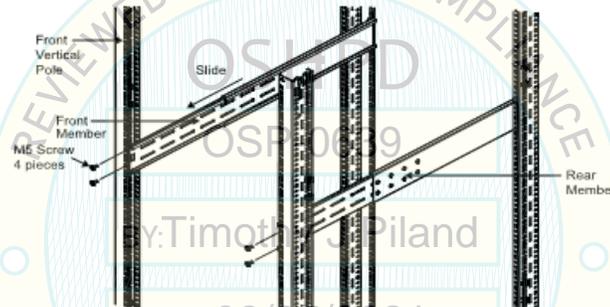


4 Post Mounting Details



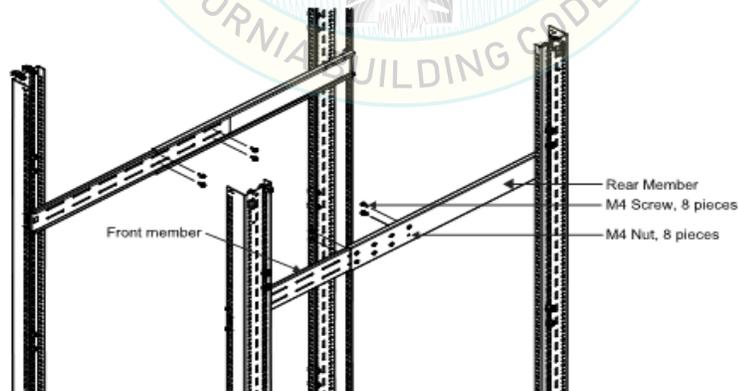
5. Extend the slide rail assembly by sliding the front member forward until it touches the rack's front vertical rails (adjustable length: 18 to 32 inches [457-813mm]). Use two M5 screws to fix each front member onto the front vertical rails through the installation holes. Make sure that slide rail assemblies 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



UNIT UNDER TEST (UUT) SUMMARY SHEET

1900509-CR-001 R3

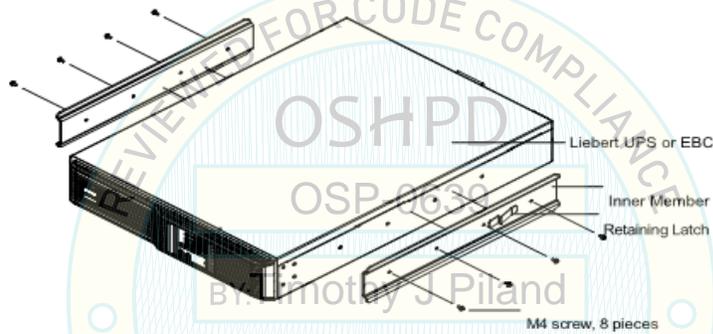


4 Post Mounting Details



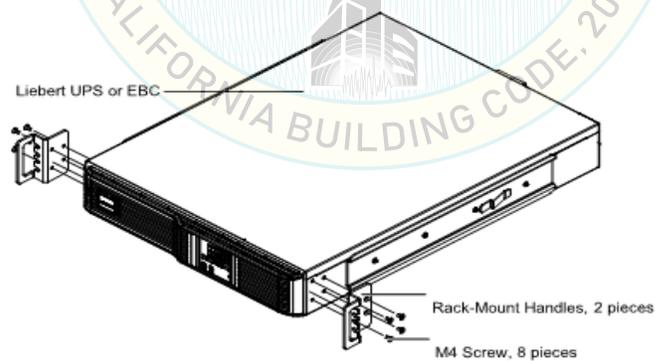
7. Fasten inner members pulled from the slide rail assemblies in Step 2 to the UPS on both sides with eight M4 screws provided in this kit. Make sure that the retaining latch is near the rear of the UPS, as shown in Figure 5.

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



UNIT UNDER TEST (UUT) SUMMARY SHEET

1900509-CR-001 R3

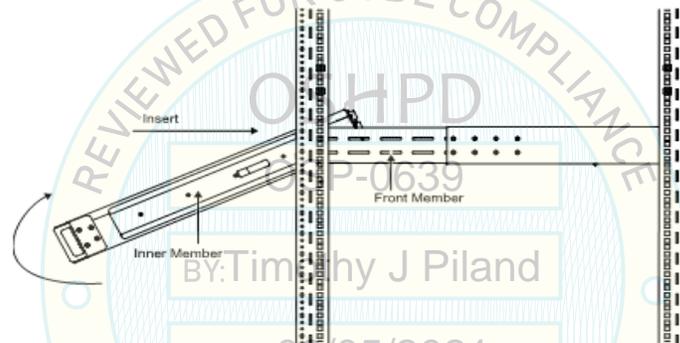


4 Post Mounting Details



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.