



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

**APPLICATION FOR OSHPD SPECIAL SEISMIC
CERTIFICATION PREAPPROVAL (OSP)**

OFFICE USE ONLY

APPLICATION #: **OSP – 0389 – 10**

OSHPD Special Seismic Certification Preapproval (OSP)

Type: New Renewal

Manufacturer Information

Manufacturer: Schneider Electric IT Business

Manufacturer's Technical Representative: Weili Cheng, RD, Senior Verification Test Engineer,

Mailing Address: Building 9, No.3000 Long Dong Avenue, PuDong ShangHai, China

Telephone: +86 2161598614 Email: Weili.cheng@schneider-electric.com

Product Information

Product Name: Galaxy VM

Product Type: Uninterrupted Power Supply

Product Model Number: See Certified Product Listing tables, attached.

(List all unique product identification numbers and/or part numbers)

General Description: The system consists of floor-mounted power sections, I/O sections, system bypass cabinets, transformer cabinets, modular battery cabinets, classical battery cabinets, and wall-mounted battery breaker boxes. The modular battery cabinets require top restraints at S_{DS} levels > 1.36g. Seismic enhancements made to the test units and modifications required to address anomalies observed during the tests shall be incorporated into the production units.

Mounting Description: See attached Certified Product Table.

Applicant Information

Applicant Company Name: Schneider Electric IT Business

Contact Person: Weili Cheng, RD, Senior Verification Test Engineer,

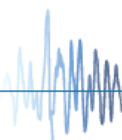
Mailing Address: Building 9, No.3000 Long Dong Avenue, PuDong ShangHai, China

Telephone: +86 2161598614 Email: Weili.cheng@schneider-electric.com

I hereby agree to reimburse the Office of Statewide Health Planning and Development review fees in accordance with the California Administrative Code, 2013.

Signature of Applicant:  Date: May 26, 2015

Title: Senior Verification Test Engineer Company Name: Schneider Electric IT Business





OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT FACILITIES DEVELOPMENT DIVISION

STATE OF CALIFORNIA – HEALTH AND HUMAN SERVICES AGENCY
OSH-FD-759 (REV 03/24/15)

Page 2 of 3

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

Company Name: Forell/Elsesser Engineers, Inc.

Name: Marco Scanu, SE California License Number: S4454

Mailing Address: 160 Pine St., 6th Flr., San Francisco, CA 94111

Telephone: (415) 837-0700 Email: m.scanu@forell.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): _____

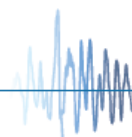
Testing Laboratory

Company Name: NTS Huntsville (formerly Wyle Laboratories)

Contact Name: Don Smith – Manager, Commercial Test Services

Mailing Address: 7800 Highway 20 West, Huntsville, AL 35806

Telephone: 256-716-4221 Email: don.smith@wyle.com





OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT FACILITIES DEVELOPMENT DIVISION

STATE OF CALIFORNIA – HEALTH AND HUMAN SERVICES AGENCY
OSH-FD-759 (REV 03/24/15)

Page 2 of 3

Seismic Parameters

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

Design Basis of Equipment or Components (F_p/W_p) = See Certified Product Listing Tables

S_{DS} (Design spectral response acceleration at short period, g) = See Certified Product Listing Tables

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

R_p (Equipment or component response modification factor) = 2.5

Ω_0 (System overstrength factor) = 2.5

I_p (Importance factor) = 1.5

z/h (Height factor ratio) = 1.0

Equipment or Component Natural Frequencies (Hz) = See UUT Summary tables

Overall dimensions and weight (or range thereof) = See Certified Product Listing tables

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

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

S_{DS} (Design spectral response acceleration at short period, g) = _____

S_{D1} (Design spectral response acceleration at 1 second period, g) = _____

R (Response modification coefficient) = _____

Ω_0 (System overstrength factor) = _____

C_d (Deflection amplification factor) = _____

I_p (Importance factor) = 1.5

Height to Center of Gravity above base = _____

Equipment or Component Natural Frequencies (Hz) = _____

Overall dimensions and weight (or range thereof) = _____

Tank(s) designed in accordance with ASME BPVC, 2010 Yes No

List of Attachments Supporting Special Seismic Certification

Test Report(s) Drawings Calculations Manufacturer's Catalog

Other(s) (Please Specify): Enclosure, Component, UUT Lists

OSHDP Approval (For Office Use Only) – Approval Expires on December 31, 2019

Signature: 

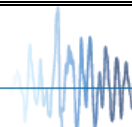
Date: 6/1/2015

Print Name: M. R. Karim

Title: SHFR

Special Seismic Certification Valid Up to : S_{DS} (g) = See Application z/h = 1.0

Condition of Approval (if applicable): _____



Schneider Electric - Galaxy VM UPS

I. Certified Products

	Width (in)	Depth (in)	Height (in)	Service Weight (lbs)	Test	Mounting	S _{DS} (g)	F _p /W _p	z/h
Power Sections									
160/180 kVA	23.6	33.6	77.6	1016	71235R14-UUT1	Floor-mounted	2.02	1.45	1
200/225 kVA	23.6	33.6	77.6	1086	71235R14-UUT2	Floor-mounted	2.02	1.45	1
I/O Sections									
160-250 kVA	17.7	33.6	77.6	460	71235R14-UUT3	Floor-mounted	2.02	1.45	1
130-225 kVA	15.7	33.6	77.6	460	71235R14-UUT4	Floor-mounted	2.02	1.45	1
Transformer Cabinet									
130-225kVA, 480V:208V	31.5	33.6	77.6	2650	PR035625-TR-15 UUT18	Floor-mounted	2.03	1.46	1
System Bypass Cabinet									
675kVA Load Bank Breaker	70.3	33.6	77.6	1430	71542R14-UUT6	Floor-mounted	2.02	1.45	1
Modular Battery Cabinets									
Single-width Cabinet	14.6	33.6	77.6	600	71370R13-UUT7	Floor-mounted	1.36	0.98	1
Double-width Cabinet	27.6	33.6	77.6	3826	71370R13-UUT8	Floor-mounted	1.36	0.98	1
Single-width Cabinet	14.6	33.6	77.6	600	71370R13-UUT7	Floor-mounted w/ top Restraints	2.02	1.45	1
Double-width Cabinet	27.6	33.6	77.6	3826	71370R13-UUT8	Floor-mounted w/ top Restraints	2.02	1.45	1
Classic Battery Cabinets									
Wide Cabinet	42.5	33.6	77.6	3500	71370R13-UUT10	Floor-mounted	2.02	1.45	1
Battery Breaker Box									
600 A	33.5	11.8	50.4	228	71370R13-UUT11	Wall-mounted	2.09	1.50	1
630 A	33.5	11.8	50.4	216	71370R13-UUT12	Wall-mounted	2.09	1.50	1

Notes:

1. All units use indoor carbon steel enclosures.
2. 71370R13-UUT8 was tested with a 5.9"H x 33.6"D x 77.6"H "sidecar" pull box.
3. Modular battery cabinets were tested and may be installed bayed or unbayed.

Schneider Electric - Galaxy VM UPS
II. Certified Internal Components

Description	Manufacturer	Part #	UUT	Notes
Power Blocks				
27 kVA	Schneider Electric	0N-9879	UUT1	
40 kVA	Schneider Electric	0N-9831	UUT2	
42 kVA	Schneider Electric	0N-10328	extrapolated	
Rectifiers				
160-225 kVA	Schneider Electric	0N-10019	UUT1, UUT2	
Static Bypass Modules				
160-275 kVA	Schneider Electric	0N-1152	UUT1, UUT2	
Contactors				
TeSys 3-pole Contactor 80A	Schneider Electric	LC1D65A6BD	UUT4	
TeSys 3-pole Contactor 200A	Schneider Electric	LC1D115BD	UUT1, UUT2	
Chokes				
Inductor Rod Core 10UH 185A	Schneider Electric	420-0283	UUT1, UUT2	
Fans				
Fan Assembly	Schneider Electric	0N-1254	UUT1, UUT2	
Power Supply Units				
Power cabinet PSU	Schneider Electric	0N-1229	UUT1, UUT2	
Circuit Breakers				
PowerPact 250A 500V 3 pole	Square D	JGL37250D82	extrapolated	
PowerPact 250A 600V 3 pole	Square D	JDF36250	UUT7, UUT8	
PowerPact 250-250A 3 pole	Square D	LJF36250CU31X	interpolated	
PowerPact 250-250A 4 pole	Square D	LJF46250CU31X	interpolated	
PowerPact 400A 600V 3 pole	Square D	LHL3640030DC	interpolated	
PowerPact 400-400A 3 pole	Square D	LJF36400CU31X	interpolated	
PowerPact 400-400A 4 pole	Square D	LJF46400CU31X	UUT4	
PowerPact 600A 600V 3 pole	Square D	LJF46600U31X	interpolated	
PowerPact 1200A 600V 3 pole	Square D	PJF36120CU31A	UUT6	
PowerPact 1200A 600V 4 pole	Square D	RJF46120CU31A	UUT6	
Compact NSX 630A	Schneider Electric	NSX630D CMPI	UUT10	
(wall-mounted applications)				
PowerPact 600A 600V 3 pole	Square D	MHF3660033DC	UUT11	
630A 500VDC NSX630FDC	Schneider Electric	LV438403	UUT12	

Schneider Electric - Galaxy VM UPS
II. Certified Internal Components

Description	Manufacturer	Part #	UUT	Notes
Switches				
Interpact INS250A 3 pole	Schneider Electric	31106	extrapolated	
Interpact INS250A 4 pole	Schneider Electric	31107	extrapolated	
Interpact INS400A 3 pole	Schneider Electric	31110	UUT3	
Interpact INS400A 4 pole	Schneider Electric	31111	interpolated	
Interpact INS500A 3 pole	Schneider Electric	31112	interpolated	
Interpact INS500A 4 pole	Schneider Electric	31113	interpolated	
Interpact INS630A 3 pole	Schneider Electric	31114	interpolated	
Interpact INS630A 4 pole	Schneider Electric	31115	UUT3	
Interpact INSJ400-250A 3 pole	Schneider Electric	31118	interpolated	
Interpact INSJ400-250A 4 pole	Schneider Electric	31119	interpolated	
Interpact INSJ400-400A 3 pole	Schneider Electric	31136	interpolated	
Interpact INSJ400-400A 4 pole	Schneider Electric	31137	UUT4	
Compact NS1000H 630A 4 pole	Schneider Electric	33476	UUT3	
Fuses				
High Speed Fuse 250A 690V/700V	Bussmann	170M4659	extrapolated	
High Speed Fuse 350A 690V/700V	Bussmann	170M4661	extrapolated	
High Speed Fuse 450A 690V/700V	Bussmann	170M4663	UUT8	
High Speed Fuse 630A 690V/700V	Bussmann	170M4666	UUT10	
High Speed Fuse 800A 690V/700V	Bussmann	170M4668	UUT8	
High Speed Fuse Indicator	Bussmann	170H3027	UUT8	
High Speed Axial Fuse 30A 500V 20kA	Bussmann	BK/GBH-V030A6FR	UUT7, UUT8	
High Speed Axial Fuse 30A 500V 20kA	Littelfuse	505030.MXEP	UUT7, UUT8	
(wall-mounted applications)				
High Speed Fuse 350A 690V/700V	Bussmann	170M4661	extrapolated	
High Speed Fuse 450A 690V/700V	Bussmann	170M4663	extrapolated	
High Speed Fuse 630A 690V/700V	Bussmann	170M4666	UUT11	
High Speed Fuse 800A 690V/700V	Bussmann	170M4668	UUT12	

Schneider Electric - Galaxy VM UPS
II. Certified Internal Components

Description	Manufacturer	Part #	UUT	Notes
Transformer				
225KVA 480V:208V 60Hz isolation	Schneider Electric	432-0101	UUT18	
Batteries - Modular				
CSB 9 Ah	CSB	HRL 1234W F2FR	UUT7, UUT8	
Energys 9Ah	Energys	NPX35/250FRWT	UUT7, UUT8	
Japan Storage/GS Portalac 9 Ah	Japan Storage	PXL 12090	UUT7, UUT8	
Panasonic 9Ah	Panasonic	UP-PW1245P1	UUT7, UUT8	
Batteries - Lead-Acid				
Energys 28 Ah	Energys	12HX135	extrapolated	
Energys 44 Ah	Energys	12HX205	extrapolated	
Energys 70 Ah	Energys	12HX300	UUT10	
Energys 94 Ah	Energys	12HX400	UUT10	
C&D 32 Ah	C&D	UPS-12-150MR	extrapolated	
C&D 55 Ah	C&D	UPS-12-210MR	extrapolated	
C&D 78.6 Ah	C&D	UPS-12-300MR	UUT10	
C&D 103 Ah	C&D	UPS-12-400MR	UUT10	
Exide 40 Ah	Exide	P12V875	extrapolated	
Exide 56.4 Ah	Exide	XP12V1800	extrapolated	
Exide 69.5 Ah	Exide	XP12V2500	UUT10	
Exide 92.8 Ah	Exide	XP12V3000	UUT10	
Rocket 55 Ah	Rocket	ESU 12-210W	extrapolated	
Rocket 82 Ah	Rocket	ESU 12-300W	UUT10	
Rocket 95 Ah	Rocket	ESU 12-350W	UUT10	
Rocket 110 Ah	Rocket	ESU 12-400W	UUT10	
Vision 74.75 Ah	Vision	6FM65X	UUT10	
Vision 92 Ah	Vision	6FM80X	UUT10	
Vision 103.5 Ah	Vision	6FM90T-X	UUT10	
Vision 115 Ah	Vision	6FM100HX	UUT10	
Yuasa 92.4 Ah	Yuasa	SWL2500	UUT10	

OSP APPLICATION
Schneider Electric – Galaxy VM UPS
UUT Summary Sheets

Test Report 71235R14 – UUT1

160/180 kVA Power Section
Cold formed carbon steel indoor enclosure
23.6"W x 33.6"D x 77.6"H, 1,016 lbs
Floor-mounted, bayed to UUT3
Mounted using: (5) – M12 bolts type 8.8



UUT1, left

Building Code		Test Criteria	S _{DS} (g)	z/h	Horizontal		Vertical	
					A _{FLX-H}	A _{RIG-H}	A _{FLX-V}	A _{RIG-V}
CBC 2013		ICC-ES AC 156	2.02	1	3.23	2.43	1.35	0.55
Natural Frequencies			Test Results					
F-B	S-S	V	The UUT maintained structural integrity and functionality after the AC156 test.					
12.0 Hz	6.7 Hz	25.0 Hz						

Internal Components	Manufacturer	Part No.
6x 27 kVA Power Blocks	Schneider Electric	0N-9879
160-225 kVA Rectifier	Schneider Electric	0N-10019
160-275 kVA Static Bypass Module	Schneider Electric	0N-1152
TeSys 3-pole Contactor 200A	Schneider Electric	LC1D115BD
Choke - Inductor Rod Core 10UH 185A	Schneider Electric	420-0283
Fan Assembly	Schneider Electric	0N-1254
Power Supply	Schneider Electric	0N-1229

OSP APPLICATION
Schneider Electric – Galaxy VM UPS
UUT Summary Sheets

Test Report 71235R14 – UUT3

160-250 kVA I/O Section
Cold formed carbon steel indoor enclosure
17.7"W x 33.6"D x 77.6"H, 460 lbs
Floor-mounted, bayed to UUT1
Mounted using: (4) – M12 bolts type 8.8



UUT3, right

Building Code	Test Criteria	S _{DS} (g)	z/h	Horizontal		Vertical	
				A _{FLX-H}	A _{RIG-H}	A _{FLX-V}	A _{RIG-V}
CBC 2013	ICC-ES AC 156	2.02	1	3.23	2.43	1.35	0.55
Natural Frequencies			Test Results				
F-B	S-S	V	The UUT maintained structural integrity and functionality after the AC156 test.				
12.0 Hz	6.7 Hz	-					

Internal Components	Manufacturer	Part No.
Interpact INS400A 3 pole Switch	Schneider Electric	31110
Interpact INS400A 4 pole Switch	Schneider Electric	31111
Interpact INS630A 4 pole Switch	Schneider Electric	31115

OSP APPLICATION
Schneider Electric – Galaxy VM UPS
UUT Summary Sheets

Test Report 71235R14 – UUT2

200/225 kVA Power Section
Cold formed carbon steel indoor enclosure
23.6"W x 33.6"D x 77.6"H, 1,086 lbs
Floor-mounted, bayed to UUT4
Mounted using: (5) – M12 bolts type 8.8



UUT2, left

Building Code		Test Criteria	S _{DS} (g)	z/h	Horizontal		Vertical	
					A _{FLX-H}	A _{RIG-H}	A _{FLX-V}	A _{RIG-V}
CBC 2013		ICC-ES AC 156	2.02	1	3.23	2.43	1.35	0.55
Natural Frequencies			Test Results					
F-B	S-S	V	The UUT maintained structural integrity and functionality after the AC156 test.					
13.0 Hz	6.8 Hz	26.0 Hz						

Internal Components	Manufacturer	Part No.
6x 40 kVA Power Blocks	Schneider Electric	0N-9831
160-225 kVA Rectifier	Schneider Electric	0N-10019
160-275 kVA Static Bypass Module	Schneider Electric	0N-1152
TeSys 3-pole Contactor 200A	Schneider Electric	LC1D115BD
Choke - Inductor Rod Core 10UH 185A	Schneider Electric	420-0283
Fan Assembly	Schneider Electric	0N-1254
Power Supply	Schneider Electric	0N-1229

OSP APPLICATION
Schneider Electric – Galaxy VM UPS
UUT Summary Sheets

Test Report 71235R14 – UUT4

160-250 kVA I/O Section
Cold formed carbon steel indoor enclosure
15.7"W x 33.6"D x 77.6"H, 460 lbs
Floor-mounted, bayed to UUT2
Mounted using: (4) – M12 bolts type 8.8



UUT4, right

Building Code		Test Criteria	S _{DS} (g)	z/h	Horizontal		Vertical	
					A _{FLX-H}	A _{RIG-H}	A _{FLX-V}	A _{RIG-V}
CBC 2013		ICC-ES AC 156	2.02	1	3.23	2.43	1.35	0.55
Natural Frequencies			Test Results					
F-B	S-S	V	The UUT maintained structural integrity and functionality after the AC156 test.					
13.0 Hz	6.8 Hz	25.0 Hz						

Internal Components	Manufacturer	Part No.
PowerPact 400-400A 4 pole Circuit Breaker	Square D	LJF46400CU31X
Interpact INSJ400-400A 3 pole Switch	Schneider Electric	31136
Interpact INSJ400-400A 4 pole Switch	Schneider Electric	31137
Bonding Contactor	Schneider Electric	LC1D65A6BD
Kirk Keys	Kirkkey Interlock	KFL010010

OSP APPLICATION
Schneider Electric – Galaxy VM UPS
UUT Summary Sheets

Test Report 71370R13 – UUT11

600 A Battery Breaker Box
Cold formed carbon steel indoor enclosure
33.5"W x 11.8"D x 50.4"H, 228 lbs
Wall-mounted
Mounted using: (4) M8 screws



Building Code		Test Criteria	S _{DS} (g)	z/h	Horizontal		Vertical	
					A _{FLX-H}	A _{RIG-H}	A _{FLX-V}	A _{RIG-V}
CBC 2013		ICC-ES AC 156	2.16	1	3.46	2.59	1.44	0.58
Natural Frequencies			Test Results					
F-B	S-S	V	The UUT maintained structural integrity and functionality after the AC156 test.					
n/a	n/a	n/a						

Internal Components	Manufacturer	Part No.
High Speed Fuse 630A 690V/700V	Bussmann	170M4666
Circuit Breaker - 600A 600V 3 pole	Square D	MHF3660033DC

OSP APPLICATION
Schneider Electric – Galaxy VM UPS
UUT Summary Sheets

Test Report 71370R13 – UUT12

630 A Battery Breaker Box
Cold formed carbon steel indoor enclosure
33.5"W x 11.8"D x 50.4"H, 216 lbs
Wall-mounted
Mounted using: (4) M8 screws



Building Code		Test Criteria	S _{DS} (g)	z/h	Horizontal		Vertical	
					A _{FLX-H}	A _{RIG-H}	A _{FLX-V}	A _{RIG-V}
CBC 2013		ICC-ES AC 156	2.09	1	3.46	2.59	1.44	0.58
Natural Frequencies			Test Results					
F-B	S-S	V	The UUT maintained structural integrity and functionality after the AC156 test.					
n/a	n/a	n/a						

Internal Components	Manufacturer	Part No.
High Speed Fuse 800A 690V/700V	Bussmann	170M4668
Circuit Breaker 630A 500VDC	Schneider Electric	LV438403

Test Report 71370R13 – UUT7a

Floor-mounted (w/o top restraints)

Modular Battery Cabinet – single-width
 Cold formed carbon steel indoor enclosure
 14.6"W x 33.6"D x 77.6"H, 600 lbs
 Floor-mounted, bayed to UUT8
 Mounted using: (4) – M12 bolts type 8.8



UUT7, left

Building Code		Test Criteria	S _{DS} (g)	z/h	Horizontal		Vertical	
					A _{FLX-H}	A _{RIG-H}	A _{FLX-V}	A _{RIG-V}
CBC 2013		ICC-ES AC 156	1.36	1	2.18	1.63	0.91	0.36
Natural Frequencies			Test Results					
F-B	S-S	V	The UUT maintained structural integrity and functionality after the AC156 test.					
6.0 Hz	6.0 Hz	-						

Internal Components	Manufacturer	Part No.
CSB 9 Ah	CSB	HRL 1234W F2FR
Circuit Breaker - PowerPact 250A 600V 3 pole	Square D	JDF36250

Test Report 71370R13 – UUT8a

Floor-mounted (w/o top restraints)

Modular Battery Cabinet – double-width
Cold formed carbon steel indoor enclosure
27.6"W x 33.6"D x 77.6"H, 3,826 lbs
+ 5.9"W "sidecar" pull box
Floor-mounted, bayed only to pull box (see note below)
Mounted using: (8) – M12 bolts type 8.8

Note: "Sidecar" pull box is attached to the modular battery cabinet only; it is not anchored to the floor.



Building Code	Test Criteria	S _{DS} (g)	z/h	Horizontal		Vertical	
				A _{FLX-H}	A _{RIG-H}	A _{FLX-V}	A _{RIG-V}
CBC 2013	ICC-ES AC 156	1.36	1	2.18	1.63	0.91	0.36
Natural Frequencies			Test Results				
F-B	S-S	V	The UUT maintained structural integrity and functionality after the AC156 test.				
4.3 Hz	3.6 Hz	21.0 Hz					

Internal Components	Manufacturer	Part No.
CSB 9 Ah	CSB	HRL 1234W F2FR
Energys 9 Ah	Energys	NPX35/250FRWT
Japan Storage 9 Ah	Japan Storage	PXL 12090
Panasonic 9 Ah	Panasonic	UP-PW1245P1
Circuit Breaker - PowerPact 250A 600V 3 pole	Square D	JDF36250
High Speed Fuse 450A 690V/700V	Bussmann	170M4663
High Speed Fuse 800A 690V/700V	Bussmann	170M4668
High Speed Fuse Indicator	Bussmann	170H3027

Test Report 71370R13 – UUT7b

Floor-mounted (with top restraints)

Modular Battery Cabinet – single-width
 Cold formed carbon steel indoor enclosure
 14.6"W x 33.6"D x 77.6"H, 600 lbs
 Floor-mounted, bayed to UUT8
 Mounted using: (4) – M12 bolts type 8.8 at base,
 (2) – M12 bolts type 8.8 at wall



UUT7, left

Building Code		Test Criteria	S _{DS} (g)	z/h	Horizontal		Vertical	
					A _{FLX-H}	A _{RIG-H}	A _{FLX-V}	A _{RIG-V}
CBC 2013		ICC-ES AC 156	2.02	1	3.23	2.43	1.35	0.55
Natural Frequencies			Test Results					
F-B	S-S	V	The UUT maintained structural integrity and functionality after the AC156 test.					
n/a	n/a	n/a						

Internal Components	Manufacturer	Part No.
CSB 9 Ah	CSB	HRL 1234W F2FR
Circuit Breaker - PowerPact 250A 600V 3 pole	Square D	JDF36250

Test Report 71370R13 – UUT8b

Floor-mounted (with top restraints)

Modular Battery Cabinet – double-width
 Cold formed carbon steel indoor enclosure
 27.6"W x 33.6"D x 77.6"H, 3,826 lbs
 + 5.9"W "sidecar" pull box
 Floor-mounted, bayed to UUT7b
 Mounted using: (8) – M12 bolts type 8.8 at base,
 (2) – M12 bolts type 8.8 at wall



UUT8, right

Note: "Sidecar" pull box is attached to the modular battery cabinet only; it is not anchored to the floor.

Building Code	Test Criteria	S _{DS} (g)	z/h	Horizontal		Vertical	
				A _{FLX-H}	A _{RIG-H}	A _{FLX-V}	A _{RIG-V}
CBC 2013	ICC-ES AC 156	2.02	1	3.23	2.43	1.35	0.55
Natural Frequencies			Test Results				
F-B	S-S	V	The UUT maintained structural integrity and functionality after the AC156 test.				
n/a	n/a	n/a					

Internal Components	Manufacturer	Part No.
CSB 9 Ah	CSB	HRL 1234W F2FR
Energys 9 Ah	Energys	NPX35/250FRWT
Japan Storage 9 Ah	Japan Storage	PXL 12090
Panasonic 9 Ah	Panasonic	UP-PW1245P1
Circuit Breaker - PowerPact 250A 600V 3 pole	Square D	JDF36250
High Speed Fuse 450A 690V/700V	Bussmann	170M4663
High Speed Fuse 800A 690V/700V	Bussmann	170M4668
High Speed Fuse Indicator	Bussmann	170H3027

OSP APPLICATION
Schneider Electric – Galaxy VM UPS
UUT Summary Sheets

Test Report 71370R13 – UUT10

Classical Battery Cabinet - Wide
Cold formed carbon steel indoor enclosure
42.5"W x 33.6"D x 77.6"H, 3,500 lbs
Floor-mounted, unbayed
Mounted using: (10) – M12 bolts type 8.8 at base,



Building Code	Test Criteria	S _{DS} (g)	z/h	Horizontal		Vertical	
				A _{FLX-H}	A _{RIG-H}	A _{FLX-V}	A _{RIG-V}
CBC 2013	ICC-ES AC 156	2.02	1	3.23	2.43	1.35	0.55
Natural Frequencies			Test Results				
F-B	S-S	V	The UUT maintained structural integrity and functionality after the AC156 test.				
7.3 Hz	9.3 Hz	-					

Internal Components	Manufacturer	Part No.
Yuasa 92.4 Ah	Yuasa	SWL2500
Enersys 70 Ah	Enersys	12HX300
Enersys 94 Ah	Enersys	12HX400
C&D 78.6 Ah	C&D	UPS-12-300 MR
C&D 103 Ah	C&D	UPS-12-400 MR
Rocket 9582 Ah	Rocket	ESU 12-300W
Rocket 95 Ah	Rocket	ESU 12-350W
Rocket 110 Ah	Rocket	ESU 12-400W
Exide 69.5 Ah	Exide	XP12V2500
Exide 92.8 Ah	Exide	XP12V3000
Vision 74.75 Ah	Vision	6FM65X
Vision 92 Ah	Vision	6FM80X
Vision 103.5 Ah	Vision	6FM90T-X
Vision 115 Ah	Vision	6FM100HX
Circuit Breaker - Compact NSX 630A	Schneider	NSX630D CMPI
High Speed Fuse 630A 690V/700V	Bussmann	170M4666

OSP APPLICATION
Schneider Electric – Galaxy VM UPS
UUT Summary Sheets

Test Report 71542R14 – UUT6

675 kVA Load Bank Breaker System Bypass Cabinet
Cold formed carbon steel indoor enclosure
70.3"W x 33.6"D x 77.6"H, 1,430 lbs
Floor-mounted, unbayed
Mounted using: (9) – M12 bolts type 8.8 at base



Building Code		Test Criteria	S _{DS} (g)	z/h	Horizontal		Vertical	
					A _{FLX-H}	A _{RIG-H}	A _{FLX-V}	A _{RIG-V}
CBC 2013		ICC-ES AC 156	2.02	1	3.23	2.43	1.35	0.55
Natural Frequencies			Test Results					
F-B	S-S	V	The UUT maintained structural integrity and functionality after the AC156 test.					
9.5 Hz	15.0 Hz	-						

Internal Components	Manufacturer	Part No.
Load Bank Breaker - PowerPact 1200A 600V 3 pole	Square D	PJF36120CU31A
Circuit Breaker - PowerPact 1200A 600V 4 pole	Square D	RJF46120CU31A

OSP APPLICATION
Schneider Electric – Galaxy VM UPS
UUT Summary Sheets

Test Report PR035625-TR-15 – UUT18

130-225kVA, 480V:208V Transformer Cabinet
Cold formed carbon steel indoor enclosure
31.5"W x 33.6"D x 77.6"H, 2650 lbs
Floor-mounted, unbayed
Mounted using: (13) – M12 bolts type 8.8 at base



Building Code	Test Criteria	S _{DS} (g)	z/h	Horizontal		Vertical	
				A _{FLX-H}	A _{RIG-H}	A _{FLX-V}	A _{RIG-V}
CBC 2013	ICC-ES AC 156	2.03	1	3.24	2.44	1.36	0.55
Natural Frequencies			Test Results				
F-B	S-S	V	The UUT maintained structural integrity and functionality after the AC156 test.				
10 Hz	9 Hz	-					

Internal Components	Manufacturer	Part No.
Transformer-225KVA 480V:208V 60Hz isolation	Schneider Electric	432-0101