



**DEPARTMENT OF HEALTH CARE ACCESS AND INFORMATION
FACILITIES DEVELOPMENT DIVISION**

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

OFFICE USE ONLY

APPLICATION #: OSP-0455

HCAI Special Seismic Certification Preapproval (OSP)

Type: New Renewal

Manufacturer Information

Manufacturer: Schneider Electric

Manufacturer's Technical Representative: Vlad Muresan

Mailing Address: Silicon Alle 1, DK-6000, Kolding, Denmark

Telephone: (4) 527-7701

Email: vlad.muresan@se.com

Product Information

Product Name: UPS and Batteries

Product Type: UPS

Product Model Number: Galaxy VX

General Description: UPS systems consisting of I/O, Power, & Maintenance Bypass cabinets w/ power blocks, rectifiers

Mounting Description: Rigid, Floor Mounted

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

Applicant Information

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

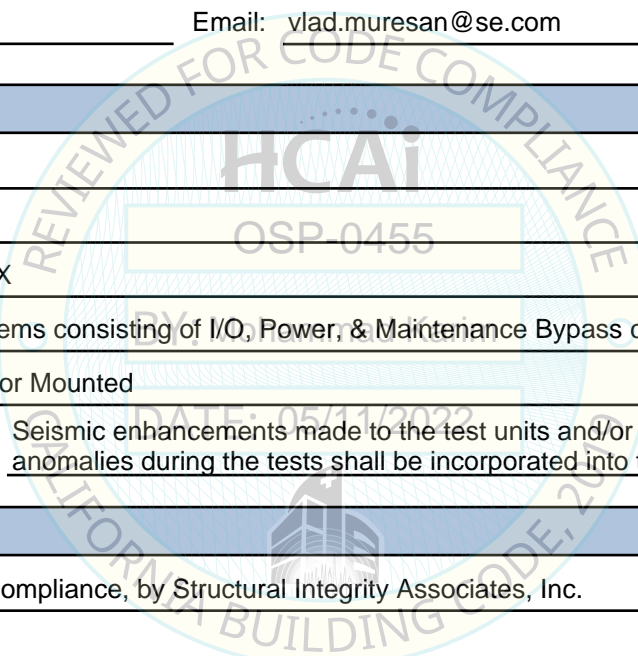
Contact Person: Galen Reid

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

Telephone: (541) 604-7225

Email: greid@structint.com

Title: Director, TRU Compliance





**DEPARTMENT OF HEALTH CARE ACCESS AND INFORMATION
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California Licensed Structural Engineer Responsible for the Engineering and Test Report(s)

Company Name: STRUCTURAL INTEGRITY ASSOCIATES, INC.

Name: Andrew Coughlin

California License Number: S6082

Mailing Address: 5215 Hellyer Ave, Suite 101, San Jose, CA 95138-1025

Telephone: (415) 635-8461

Email: acoughlin@structint.com

Certification Method

GR-63-Core

ICC-ES AC156

IEEE 344

IEEE 693

NEBS 3

Other (Please Specify): _____

Testing Laboratory

Company Name: CENTRAL POWER RESEARCH INSTITUTE (CPRI), EARTHQUAKE ENGINEERING AND VIBRATION RESEARCH CENTER

Contact Person: R. Panneer Selvam

Mailing Address: PB No. 8066, Sadashiva Nagar P.O, Bangaluru Karnataka 560 080

Telephone: (802) 360-4683

Email: dgcpr@cpri.in

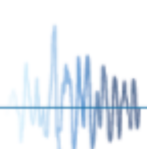
Company Name: NATIONAL TECHNICAL SYSTEMS (NTS)

Contact Person: Greg Mason

Mailing Address: 7800 Highway 20 West, Huntsville AL 35806

Telephone: (256) 837-4411

Email: greg.mason@nts.com





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FACILITIES DEVELOPMENT DIVISION**

Seismic Parameters

Design Basis of Equipment or Components (F_p/W_p) = 1.37

SDS (Design spectral response acceleration at short period, g) = 1.83

a_p (Amplification factor) = 2.5

R_p (Response modification factor) = 6.0

Ω_0 (System overstrength factor) = 2.0

I_p (Importance factor) = 1.5

z/h (Height ratio factor) = 1

Natural frequencies (Hz) = See Attachment

Overall dimensions and weight = See Attachment

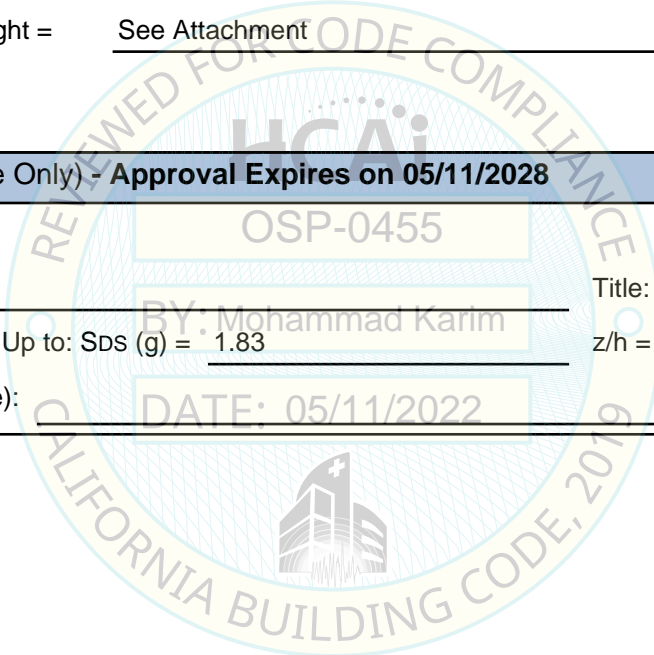
HCAI Approval (For Office Use Only) - Approval Expires on 05/11/2028

Date: 5/11/2022

Name: Mohammad Karim Title: Supervisor, Health Facilities

Special Seismic Certification Valid Up to: SDS (g) = 1.83 z/h = 1

Condition of Approval (if applicable): DATE: 05/11/2022



SPECIAL SEISMIC CERTIFICATION CERTIFIED COMPONENT MATRIX

2000654-CR-001-R0



| | |
|---|----------------|
| Manufacturer: Schneider Electric | TABLE 1 |
| Model Line: Galaxy VX, 500-1500kVA | |

Certified Product Construction Summary:
Cabinet frames and panels are cold-formed carbon steel w/ 1.5-2.5mm thick frame members.

Certified Options Summary:
Indoor use.

Mounting Configuration:
Base mounted - rigid
Note: Installed mounting configuration must be of similar configuration and equivalent strength and stiffness to those tested.

Building Code: CBC 2019 **Seismic Certification Limits:** $S_{DS} = 1.83 g$ $z/h=1.0$ $I_p = 1.5$
 $S_{DS} = 1.83 g$ $z/h=0.0$

| Model Line | Model | Dimensions (in) | | | Weight (lb) | Notes | UUT |
|----------------------------------|----------------------|-----------------|-------|--------|-------------|----------------|----------|
| | | Depth | Width | Height | | | |
| Power Cabinet (PC) | 250kW PC | 35.4 | 23.6 | 77.6 | 1,162 | | 10,12,13 |
| | | 35.4 | 23.6 | 77.6 | 1,183 | | 15 |
| | | 35.4 | 23.6 | 77.6 | 1,193 | | 2,3,4,7 |
| Input/Output Cabinet (IOC) | 1250 kW IOC | 35.4 | 47.2 | 77.6 | 1,576 | | 14 |
| | 1000-1500 kW N+1 IOC | 35.4 | 78.7 | 77.6 | 1,804 | UUT11: 1500 kW | 11 |
| | 500-1000 kW N+1 IOC | 35.4 | 59.1 | 77.6 | 1,826 | UUT9: 1000kW | 9 |
| | 625-750 kW IOC | 35.4 | 59.1 | 77.6 | 2,229 | UUT1,6: 750kW | 1,6 |
| Maintenance Bypass Cabinet (MBC) | 625-750 kW MBC | 35.4 | 31.5 | 77.6 | 1,155 | | 5,8 |
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SPECIAL SEISMIC CERTIFICATION CERTIFIED SUBCOMPONENT MATRIX

2000654-CR-001-R0



| Manufacturer: Schneider Electric Model Line: Galaxy VX, 500-1500kVA | | Table Description: Electrical Subcomponents | | | TABLE 2 | |
|--|--------------------|--|---------------------------------|---------------|--|--|
| Building Code: CBC 2019 | | Seismic Certification Limits: | | | $S_{DS} = 1.83 g$ $z/h = 1.0$ $S_{DS} = 1.83 g$ $z/h = 0.0$ | |
| | | | | | $I_p = 1.5$ | |
| Component Type | Manufacturer | Model | Description | Notes | UUT | |
| Power Block | Schneider Electric | ON-94906 | 42kW | | 2,3,4,7 | |
| | | ON-9850 | 42 kW PF1 | | 10,12,13,15 | |
| Rectifiers | Schneider Electric | ON-10236 | 250 kW-0455 | | 2,3,4,7 | |
| | | ON-96600 | 250 kW PC2 | | 10,12,13,15 | |
| Static Bypass Switch | Schneider Electric | ON-10542 | 625-750 kW Module | UUT1,6: 750kW | 1,6 | |
| | | ON-10742 | 500-1000 kW Module | UUT9: 1000kW | 9 | |
| | Infineon Tech. | 1T3160NK0048U1105802 | Assembly Block | | 11 | |
| Contactors | Schneider Electric | LC1F3330 | TeSys 2-pole, 330A | | 14 | |
| | | LC1F4002 | TeSys 2-pole, 500A | | 11 | |
| | | LC1F265N7 | TeSys 3-pole, 265A | | 9 | |
| | | LC1D115BD | TeSys 3-pole, 200A | | 2,3,4,7,10,12,13 | |
| | | LC1F185M5 | TeSys 3-pole 185A | | 1,6 | |
| | | LADN11 | Auxiliary Contactor | | 1,6 | |
| Chokes | Schneider Electric | 420-0771 | Line Reactor 250kVA | | 2,3,4,7 | |
| | | 420-0820 | Line Reactor Coil for 250kVA | | 10,12,13 | |
| Circuit Breakers | Square D | RLF36160CU31AAE | PowerPact 1600A, 3 pole | | 1,6 | |
| | | PLF34120CU31AAESK | PowerPact 1200A, 3 pole | | 1,5,6,8 | |
| | | RLF36000S20 | PowerPact 2000A, 3 pole | | 9 | |
| | | RLF36000S25 | PowerPact 2500A, 3 pole | | 11 | |
| Pressure Chamber | Schneider Electric | ON-10727 | Pressure Chamber Assembly, Wide | | 15 | |

SPECIAL SEISMIC CERTIFICATION CERTIFIED SUBCOMPONENT MATRIX

2000654-CR-001-R0



| Manufacturer: Schneider Electric Model Line: Galaxy VX, 500-1500kVA | | Table Description: Electrical Subcomponents | | TABLE 2 | |
|--|---------------------------------|--|---|--|---------------------|
| Building Code: CBC 2019 | | Seismic Certification Limits: | | $S_{DS} = 1.83 g$ $z/h = 1.0$ $S_{DS} = 1.83 g$ $z/h = 0.0$ | |
| | | | | $I_p = 1.5$ | |
| Component Type | Manufacturer | Model | Description | Notes | UUT |
| Fans | Schneider Electric | 0N-1254 | Fan Assembly | | 1,3,4,6, 7,9-13 |
| | | 0N-96386 | Fan Assembly | | 5,8 |
| | | 0N-10487 | Fan Assembly | | 1,6 |
| | | 0N-2086 | Fan Assembly | | 14 |
| | | 0N-96623 | Sub Fuse Fan Hot Swap BD1000 | | 9 |
| Transformer | Qingdao Yunlu Energy Technology | 1B-TB15225N-SD00 | Line Transformer 480V, 60Hz, 155VA | | 5,8 |
| Power Supply Units | Schneider Electric | 0N-1229 | PSU | | 1,3,4,6,7, 10-13 |
| | | 0N-10492 | PSU | | 1,6 |
| | | 0P3616 | MPSU-Valhal Assembly PCB | | 9, 10, 11, 12,13 |
| | | 0P6562 | EPSU-Bluedoor Assembly PCB | | 11 |
| | | 0P6551 | FEMPSU-Bluedoor Assembly PCB | | 9,11 |
| Fuse Holder | Bussmann | CHM1DU | FH 10x38 DIN Rail 35mm 30A 600V 75C | | 1,6 |
| | | CHM2DU | FH 10x38 DIN Rail 35mm 30A 600V 120C | | 5,8 |
| Microswitch | Littelfuse | MS3H1000C | Microswitch | | 1,6 |
| | Mersen | X300400 | High Speed, 550A, 690/700V, Microswitch | | 2,3,4,7 |
| | | E300522 | High Speed, 450A, 1250/1300V, Microswitch | | 2,3,4,7 |
| Molded Case Switch | Schneider Electric | 543-0076 | 3 Pole, 600VAC, 2500A | | 14 |
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SPECIAL SEISMIC CERTIFICATION CERTIFIED SUBCOMPONENT MATRIX

2000654-CR-001-R0



| | | |
|---|--|----------------|
| Manufacturer: Schneider Electric | Table Description: Electrical Subcomponents | TABLE 2 |
| Model Line: Galaxy VX, 500-1500kVA | | |

Building Code: CBC 2019 **Seismic Certification Limits:** $S_{DS} = 1.83 g$ $z/h = 1.0$ $I_p = 1.5$
 $S_{DS} = 1.83 g$ $z/h = 0.0$

| Component Type | Manufacturer | Model | Description | Notes | UUT |
|----------------|-----------------|-----------------|--------------------------------------|-------|----------|
| Fuses | Mersen | G1055246K | Semiconductor Fuse 630A | | 10,12,13 |
| | | C1040913K | Semiconductor Fuse 450A | | 12,13 |
| | | Q1054794F | Semiconductor Fuse 2000A | | 9 |
| | | R1054795A | Semiconductor Fuse 2500A | | 9 |
| | | PC44UD70V25CTQ | Ultra Fast-Acting Fuse 2500A | | 11 |
| | Littelfuse | L060SQ33FL1800 | High Speed Fuse 1800A 600V/690V | | 1,6 |
| | | L060SQ33FL1500 | High Speed Fuse 1500A 600V/690V | | 1,6 |
| | | KLKD 5 | Cartridge Fuse, Fast Acting 600V, 5A | | 9,11 |
| | | L125SQ71FL0450M | Semiconductor Fuse 450A | | 13 |
| | Copper Bussmann | 170M3473-SC | Semiconductor Fuse 630A | | 12,13 |
| | | 170M4957-CH | Semiconductor Fuse 450A | | 10 |
| | | 170M7083-SC | Semiconductor Fuse 2500A | | 9 |
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UNIT UNDER TEST (UUT) SUMMARY SHEET

2000654-CR-001 R0



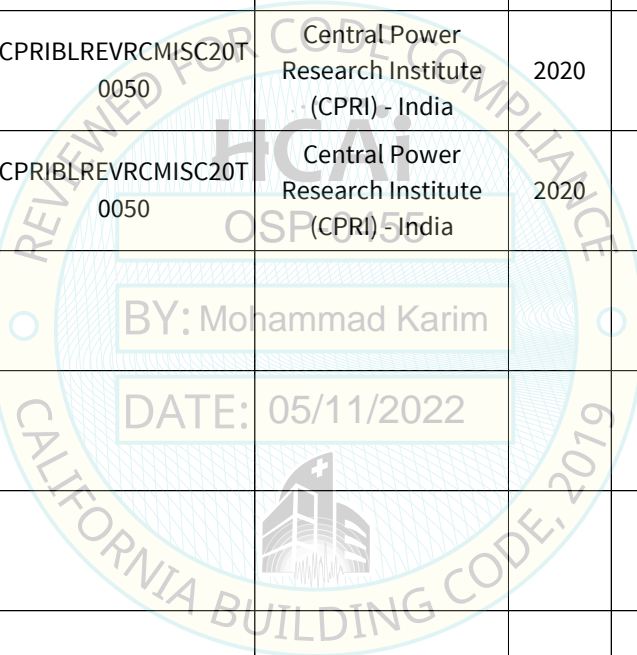
| Manufacturer: Schneider Electric Model Line: Galaxy VX, 500-1500kVA | | | | | | | | |
|--|---|-------------------------|----------------|-------------|-----------------------|-----------------|-----|----------------|
| UUT | Unit Description | Report Number | Testing Lab | Year Tested | ISO 17025 Accredited? | S _{DS} | z/h | I _P |
| 1 | Galaxy VX 625-750 kW Input/Output Cabinet | PR038133-TR-15 (UUT 1a) | NTS-Huntsville | 2015 | Yes | 2.0 | 1.0 | 1.5 |
| 2 | Galaxy VX 250kW Power Cabinet | PR038133-TR-15 (UUT 1b) | NTS-Huntsville | 2015 | Yes | 2.0 | 1.0 | 1.5 |
| 3 | Galaxy VX 250kW Power Cabinet | PR038133-TR-15 (UUT 1c) | NTS-Huntsville | 2015 | Yes | 2.0 | 1.0 | 1.5 |
| 4 | Galaxy VX 250kW Power Cabinet | PR038133-TR-15 (UUT 1d) | NTS-Huntsville | 2015 | Yes | 2.0 | 1.0 | 1.5 |
| 5 | Galaxy VX 625-750 kW Maintenance Bypass Cabinet | PR038133-TR-15 (UUT 2a) | NTS-Huntsville | 2015 | Yes | 2.0 | 1.0 | 1.5 |
| 6 | Galaxy VX 625-750 kW Input/Output Cabinet | PR038133-TR-15 (UUT 2b) | NTS-Huntsville | 2015 | Yes | 2.0 | 1.0 | 1.5 |
| 7 | Galaxy VX 250kW Power Cabinet | PR038133-TR-15 (UUT 2c) | NTS-Huntsville | 2015 | Yes | 2.0 | 1.0 | 1.5 |
| 8 | Galaxy VX 625-750 kW Maintenance Bypass Cabinet | PR038133-TR-15 (UUT 3a) | NTS-Huntsville | 2015 | Yes | 1.84 | 1.0 | 1.5 |
| 9 | Galaxy VX 500-1000 kW Input/Output Cabinet | PR038133-TR-17 (UUT 4a) | NTS-Huntsville | 2017 | Yes | 1.83 | 1.0 | 1.5 |
| 10 | Galaxy VX 250kW Power Cabinet | PR038133-TR-17 (UUT 4b) | NTS-Huntsville | 2017 | Yes | 1.83 | 1.0 | 1.5 |
| 11 | Galaxy VX 1000-1500 kW Input/Output Cabinet | PR038133-TR-17 (UUT 5a) | NTS-Huntsville | 2017 | Yes | 1.85 | 1.0 | 1.5 |

UNIT UNDER TEST (UUT) SUMMARY SHEET

2000654-CR-001 R0



| Manufacturer: Schneider Electric | | | | | | | | |
|---|---|-------------------------|---|-------------|-----------------------|-----------------|-----|----------------|
| Model Line: Galaxy VX, 500-1500kVA | | | | | | | | |
| UUT | Unit Description | Report Number | Testing Lab | Year Tested | ISO 17025 Accredited? | S _{DS} | z/h | I _P |
| 12 | Galaxy VX 250kW Power Cabinet | PR038133-TR-17 (UUT 5b) | NTS-Huntsville | 2017 | Yes | 1.85 | 1.0 | 1.5 |
| 13 | Galaxy VX 250kW Power Cabinet | PR038133-TR-17 (UUT 5c) | NTS-Huntsville | 2017 | Yes | 1.85 | 1.0 | 1.5 |
| 14 | Highlander 1250 kW Input/Output Cabinet | CPRIBLREVRCMISC20T0050 | Central Power Research Institute (CPRI) - India | 2020 | Yes | 1.94 | 1.0 | 1.5 |
| 15 | Highlander 250kW Power Cabinet | CPRIBLREVRCMISC20T0050 | Central Power Research Institute (CPRI) - India | 2020 | Yes | 1.94 | 1.0 | 1.5 |
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UNIT UNDER TEST (UUT) SUMMARY SHEET

2000654-CR-001-R0



| | |
|---|--------------|
| Manufacturer: Schneider Electric | UUT 1 |
| Model Line: Galaxy VX, 500-1500kVA | |
| Model Number: Galaxy VX 625-750 kW IOC | |
| Serial Number: N/A | |

Product Construction Summary:
Carbon Steel Indoor Enclosure

Options/Subcomponent Summary:
Static Bypass Module (P/N: 0N-10542), Contactor (P/N: LC1F185M5, LADN11), Fan Assembly (P/N: 0N-1254, 0N-10487), Power Supply Unit (P/N: 0N-1229, 0N-10492), Circuit Breaker (P/N: RLF36160CU31AAE, PLF34120CU31AAESK), Fuse (P/N: L060SQ33FL1800, L060SQ33FL1500), Microswitch (P/N: MS3H1000C), Fuse Holder (P/N: CHM1DU)

UUT Properties

| Weight (lb) | Dimension (in) | | | Lowest Natural Frequency (Hz) | | |
|-------------|----------------|-------|--------|-------------------------------|-----------|----------|
| | Depth | Width | Height | Front-Back | Side-Side | Vertical |
| 2,229 | 35.4 | 59.1 | 77.6 | 8.0 | 7.0 | 23.0 |

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 | 2.0 | 1.0 | 1.5 | 3.20 | 2.40 | 1.33 | 0.53 |
| | | 2.0 | 0.0 | | | | | |

Test Mounting Details:



Base Mounted-Rigid: Ten (10) 1/2" Grade 5 Bolts with front and rear anchoring brackets (4mm thick), P/N: EN10149-2-S355MC CFS.
Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test.
Contents were included in testing per operating conditions.

UNIT UNDER TEST (UUT) SUMMARY SHEET

2000654-CR-001-R0



| | |
|---|--------------|
| Manufacturer: Schneider Electric | UUT 2 |
| Model Line: Galaxy VX, 500-1500kVA | |
| Model Number: Galaxy VX 250kW PC Serial Number: N/A | |

Product Construction Summary:
Carbon Steel Indoor Enclosure

Options/Subcomponent Summary:
Power Blocks (P/N: 0N-94906), Rectifier (P/N: 0N-10236), Contactor (P/N: LC1D115BD), Choke (P/N: 420-0771), Fan Assembly (P/N: 0N-1254), Power Supply (P/N: 0N-1229), Fuse (P/N: X300400, E300522).

UUT Properties

| Weight (lb) | Dimension (in) | | | Lowest Natural Frequency (Hz) | | |
|-------------|----------------|-------|--------|-------------------------------|-----------|----------|
| | Depth | Width | Height | Front-Back | Side-Side | Vertical |
| 1,193 | 35.4 | 23.6 | 77.6 | 7.8 | 8.0 | 22.0 |

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 | 2.0 | 1.0 | 1.5 | 3.20 | 2.40 | 1.33 | 0.53 |
| | | 2.0 | 0.0 | | | | | |

Test Mounting Details:



Base Mounted-Rigid: Seven (7) 1/2" Grade 5 Bolts with front & rear anchoring brackets (4mm thick) P/N: EN 10130-DC01 CFS. Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test. Contents were included in testing per operating conditions.

UNIT UNDER TEST (UUT) SUMMARY SHEET

2000654-CR-001-R0



| | |
|---|--------------|
| Manufacturer: Schneider Electric | UUT 3 |
| Model Line: Galaxy VX, 500-1500kVA | |
| Model Number: Galaxy VX 250kW PC | |
| Serial Number: N/A | |

Product Construction Summary:
Carbon Steel Indoor Enclosure

Options/Subcomponent Summary:
Power Blocks (P/N: 0N-94906), Rectifier (P/N: 0N-10236), Contactor (P/N: LC1D115BD), Choke (P/N: 420-0771), Fan Assembly (P/N: 0N-1254), Power Supply (P/N: 0N-1229), Fuse (P/N: X300400, E300522).

UUT Properties

| Weight (lb) | Dimension (in) | | | Lowest Natural Frequency (Hz) | | |
|-------------|----------------|-------|--------|-------------------------------|-----------|----------|
| | Depth | Width | Height | Front-Back | Side-Side | Vertical |
| 1,193 | 35.4 | 23.6 | 77.6 | 8.0 | 8.0 | 21.0 |

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 | 2.0 | 1.0 | 1.5 | 3.20 | 2.40 | 1.33 | 0.53 |
| | | 2.0 | 0.0 | | | | | |

Test Mounting Details:



Base Mounted-Rigid: Seven (7) 1/2" Grade 5 Bolts with front & rear anchoring brackets (4mm thick), P/N: EN 10130-DC01 CFS
Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test.
Contents were included in testing per operating conditions.

UNIT UNDER TEST (UUT) SUMMARY SHEET

2000654-CR-001-R0



| | |
|---|--------------|
| Manufacturer: Schneider Electric | UUT 4 |
| Model Line: Galaxy VX, 500-1500kVA | |
| Model Number: Galaxy VX 250kW PC | |
| Serial Number: N/A | |

Product Construction Summary:
Carbon Steel Indoor Enclosure

Options/Subcomponent Summary:
Power Blocks (P/N: 0N-94906), Rectifier (P/N: 0N-10236), Contactor (P/N: LC1D115BD), Choke (P/N: 420-0771), Fan Assembly (P/N: 0N-1254), Power Supply (P/N: 0N-1229), Fuse (P/N: X300400, E300522).

UUT Properties

| Weight (lb) | Dimension (in) | | | Lowest Natural Frequency (Hz) | | |
|-------------|----------------|-------|--------|-------------------------------|-----------|----------|
| | Depth | Width | Height | Front-Back | Side-Side | Vertical |
| 1,193 | 35.4 | 23.6 | 77.6 | 7.8 | 8.0 | 20.0 |

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 | 2.0 | 1.0 | 1.5 | 3.20 | 2.40 | 1.33 | 0.53 |
| | | 2.0 | 0.0 | | | | | |

Test Mounting Details:



Base Mounted-Rigid: Seven (7) 1/2" Grade 5 Bolts with front & rear anchoring brackets (4mm thick), P/N: EN 10130-DC01 CFS
Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test.
Contents were included in testing per operating conditions.

UNIT UNDER TEST (UUT) SUMMARY SHEET

2000654-CR-001-R0



| | |
|---|--------------|
| Manufacturer: Schneider Electric | UUT 5 |
| Model Line: Galaxy VX, 500-1500kVA | |
| Model Number: Galaxy VX 625-750 kW MBC | |
| Serial Number: N/A | |

Product Construction Summary:
Carbon Steel Indoor Enclosure

Options/Subcomponent Summary:
Fan Assembly (P/N: 0N96386), Circuit Breaker (P/N: PLF34120CU31AAESK), Fuse Holder (P/N: CHM2DU), Transformer (P/N: 1B-TB15225N-SD00).

UUT Properties

| Weight (lb) | Dimension (in) | | | Lowest Natural Frequency (Hz) | | |
|-------------|----------------|-------|--------|-------------------------------|-----------|----------|
| | Depth | Width | Height | Front-Back | Side-Side | Vertical |
| 1,155 | 35.4 | 31.5 | 77.6 | 7.0 | 8.5 | 28.0 |

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 | 2.0 | 1.0 | 1.5 | 3.20 | 2.40 | 1.33 | 0.53 |
| | | 2.0 | 0.0 | | | | | |

Test Mounting Details:



Base Mounted-Rigid: Six (6) 1/2" Grade 5 bolts with front & rear anchoring brackets (4mm thick), P/N: EN 10130-DC01 CFS. Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test. Contents were included in testing per operating conditions.

UNIT UNDER TEST (UUT) SUMMARY SHEET

2000654-CR-001-R0



| | |
|---|--------------|
| Manufacturer: Schneider Electric | UUT 6 |
| Model Line: Galaxy VX, 500-1500kVA | |
| Model Number: Galaxy VX 625-750 kW IOC | |
| Serial Number: N/A | |

Product Construction Summary:
Carbon Steel Indoor Enclosure

Options/Subcomponent Summary:
Static Bypass Module (P/N: 0N-10542), Contactor (P/N: LC1F185M5, LADN11), Fan Assembly (P/N: 0N-1254, 0N-10487), Power Supply (P/N: 0N-1229, 0N-10492), Circuit Breaker (P/N: PLF34120CU31AAESK), Fuse (P/N: L060SQ33FL1800, L060SQ33FL1500), Microswitch (P/N: MS3H1000C), Fuse Holder (P/N: CHM1DU)

UUT Properties

| Weight (lb) | Dimension (in) | | | Lowest Natural Frequency (Hz) | | |
|-------------|----------------|-------|--------|-------------------------------|-----------|----------|
| | Depth | Width | Height | Front-Back | Side-Side | Vertical |
| 2,229 | 35.4 | 59.1 | 77.6 | 7.0 | 8.5 | 28.0 |

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 | 2.0 | 1.0 | 1.5 | 3.20 | 2.40 | 1.33 | 0.53 |
| | | 2.0 | 0.0 | | | | | |

Test Mounting Details:



Base Mounted-Rigid: Ten (10) 1/2" Grade 5 bolts with front & rear anchoring brackets (4mm thick), P/N: EN 10149-2-S355MC CFS. Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test. Contents were included in testing per operating conditions.

UNIT UNDER TEST (UUT) SUMMARY SHEET

2000654-CR-001-R0



| | |
|---|--------------|
| Manufacturer: Schneider Electric | UUT 7 |
| Model Line: Galaxy VX, 500-1500kVA | |
| Model Number: Galaxy VX 250 kW Power Cabinet Serial Number: N/A | |

Product Construction Summary:
Carbon Steel Indoor Enclosure

Options/Subcomponent Summary:
Power Blocks (P/N: 0N-94906), Rectifier (P/N: 0N-10236), Contactor (P/N: LC1D115BD), Choke (P/N: 420-0771), Fan Assembly (P/N: 0N-1254), Power Supply (P/N: 0N-1229), Microswitch (P/N: X300400, E300522)

UUT Properties

| Weight (lb) | Dimension (in) | | | Lowest Natural Frequency (Hz) | | |
|-------------|----------------|-------|--------|-------------------------------|-----------|----------|
| | Depth | Width | Height | Front-Back | Side-Side | Vertical |
| 1,193 | 35.4 | 23.6 | 77.6 | 7.0 | 8.5 | 20.0 |

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 | 2.0 | 1.0 | 1.5 | 3.20 | 2.40 | 1.33 | 0.53 |
| | | 2.0 | 0.0 | | | | | |

Test Mounting Details:



Base Mounted-Rigid: Seven (7) 1/2" Grade 5 bolts with front & rear anchoring brackets (4mm thick), P/N: EN 10130-DC01 CFS. Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test. Contents were included in testing per operating conditions.

UNIT UNDER TEST (UUT) SUMMARY SHEET

2000654-CR-001-R0



| | |
|--|--------------|
| Manufacturer: Schneider Electric | UUT 8 |
| Model Line: Galaxy VX, 500-1500kVA | |
| Model Number: Galaxy VX 625-750 kW Maintenance Bypass Cabinet Serial Number: N/A | |

Product Construction Summary:
Carbon Steel Indoor Enclosure

Options/Subcomponent Summary:
Fan Assembly (P/N: 0N-96386), Circuit Breaker (P/N: PLF34120CU31AAESK), Fuse Holder (P/N: CHM2DU), Transformer (P/N: 1B-TB15225N-SD00).

UUT Properties

| Weight (lb) | Dimension (in) | | | Lowest Natural Frequency (Hz) | | |
|-------------|----------------|-------|--------|-------------------------------|-----------|----------|
| | Depth | Width | Height | Front-Back | Side-Side | Vertical |
| 1,155 | 35.4 | 31.5 | 77.6 | 11.5 | 6.5 | >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 | 1.84 | 1.0 | 1.5 | 2.94 | 2.21 | 1.23 | 0.49 |
| | | 1.84 | 0.0 | | | | | |

Test Mounting Details:



Base Mounted-Rigid: Six (6) 1/2" Grade 5 bolts with front & rear anchoring brackets (4mm thick), P/N: EN1030-DC01 CFS. Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test. Contents were included in testing per operating conditions.

UNIT UNDER TEST (UUT) SUMMARY SHEET

2000654-CR-001-R0



| | |
|--|--------------|
| Manufacturer: Schneider Electric | UUT 9 |
| Model Line: Galaxy VX, 500-1500kVA | |
| Model Number: Galaxy VX, 1000 kW Input/Output Cabinet Serial Number: N/A | |

Product Construction Summary:
Carbon Steel Indoor Enclosure

Options/Subcomponent Summary:
Static Bypass Switch (P/N: 0N-10742), Contactor (P/N: LC1F265N7), Fan Assembly (0N-1254, 0N-96623), Fuse (P/N: KLKD 5, 170M7083-SC, R1054795A, Q1054794F), Power Supply (P/N: 0P3616, 0P6551), Circuit Breaker (P/N: RLF36000S20).

UUT Properties

| Weight (lb) | Dimension (in) | | | Lowest Natural Frequency (Hz) | | |
|-------------|----------------|-------|--------|-------------------------------|-----------|----------|
| | Depth | Width | Height | Front-Back | Side-Side | Vertical |
| 1,826 | 35.4 | 59.1 | 77.6 | 9.0 | 8.5 | 30.0 |

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 | 1.83 | 1.0 | 1.5 | 2.93 | 2.20 | 1.22 | 0.48 |
| | | 1.83 | 0.0 | | | | | |

Test Mounting Details:



Base Mounted-Rigid: Ten (10) 1/2" Grade 5 bolts with front & rear anchoring brackets (4mm thick), Front Bracket (P/N: EN 10149-2-S355MC CFS), Rear Bracket (P/N: EN 10130-DC01 CFS).
Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test.
Contents were included in testing per operating conditions.

UNIT UNDER TEST (UUT) SUMMARY SHEET

2000654-CR-001-R0



| | |
|---|---------------|
| Manufacturer: Schneider Electric | UUT 10 |
| Model Line: Galaxy VX, 500-1500kVA | |
| Model Number: Galaxy VX 250 kW Power Cabinet Serial Number: N/A | |

Product Construction Summary:
Carbon Steel Indoor Enclosure

Options/Subcomponent Summary:
Power Block (P/N: 0N-9850), Rectifier (P/N: 0N-96600), Contactor (P/N: LC1D115BD), Choke (P/N: 420-0820), Fan Assembly (P/N: 0N-1254), Power Supply (P/N: 0P3616), Fuse (P/N: G1055246K, 170M4957-CH).

UUT Properties

| Weight (lb) | Dimension (in) | | | Lowest Natural Frequency (Hz) | | |
|-------------|----------------|-------|--------|-------------------------------|-----------|----------|
| | Depth | Width | Height | Front-Back | Side-Side | Vertical |
| 1,162 | 35.4 | 23.6 | 77.6 | 9.0 | 8.5 | 23.0 |

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 | 1.83 | 1.0 | 1.5 | 2.93 | 2.20 | 1.22 | 0.48 |
| | | 1.83 | 0.0 | | | | | |

Test Mounting Details:



Base Mounted-Rigid: Seven (7) 1/2" Grade 5 bolts with front & rear anchoring brackets (4mm thick), P/N: EN 10130-DC-01 CFS. Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test. Contents were included in testing per operating conditions.

UNIT UNDER TEST (UUT) SUMMARY SHEET



2000654-CR-001-R0

| | |
|---|---------------|
| Manufacturer: Schneider Electric | UUT 11 |
| Model Line: Galaxy VX, 500-1500kVA | |
| Model Number: Galaxy VX 1500 kW Input/Output Cabinet Serial Number: N/A | |

Product Construction Summary:
Carbon Steel Indoor Enclosure

Options/Subcomponent Summary:
Static Bypass Switch (P/N: 1T3160NK0048U1105802), Contactor (P/N: LC1F4002), Fan Assembly (P/N: 0N-1254), Power Supply (P/N: 0P3616, 0P6562, 0P6551), Circuit Breaker (P/N: RLF36000S25), Fuse (P/N: PC44UD70V25CTQ, KLKD 5)

UUT Properties

| Weight (lb) | Dimension (in) | | | Lowest Natural Frequency (Hz) | | |
|-------------|----------------|-------|--------|-------------------------------|-----------|----------|
| | Depth | Width | Height | Front-Back | Side-Side | Vertical |
| 1,804 | 35.4 | 78.7 | 77.6 | 7.5 | 8.0 | 33.0 |

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 | 1.85 | 1.0 | 1.5 | 2.96 | 2.22 | 1.23 | 0.49 |
| | | 1.85 | 0.0 | | | | | |

Test Mounting Details:



Base Mounted-Rigid: Ten (10) 1/2" Grade 5 bolts with front and rear anchoring brackets. Front Bracket (P/N: EN 10149-2-S355MC CFS), Rear Bracket (P/N: EN 10130-DC01 CFS).
Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test.
Contents were included in testing per operating conditions.

UNIT UNDER TEST (UUT) SUMMARY SHEET



2000654-CR-001-R0

| | |
|---|---------------|
| Manufacturer: Schneider Electric | UUT 12 |
| Model Line: Galaxy VX, 500-1500kVA | |
| Model Number: Galaxy VX 250 kW Power Cabinet Serial Number: N/A | |

Product Construction Summary:
Carbon Steel Indoor Enclosure

Options/Subcomponent Summary:
Power Block (P/N: 0N-9850), Rectifier (P/N: 0N-96600), Contactor (P/N: LC1D115BD), Choke (P/N:420-0820), Fan Assembly (P/N:0N-1254), Power Supply (P/N: 0P3616), Fuse (P/N: 170M3473-SC, C1040913K).

UUT Properties

| Weight (lb) | Dimension (in) | | | Lowest Natural Frequency (Hz) | | |
|-------------|----------------|-------|--------|-------------------------------|-----------|----------|
| | Depth | Width | Height | Front-Back | Side-Side | Vertical |
| 1,162 | 35.4 | 23.6 | 77.6 | 7.5 | 8.0 | 23.0 |

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 | 1.85 | 1.0 | 1.5 | 2.96 | 2.22 | 1.23 | 0.49 |
| | | 1.85 | 0.0 | | | | | |

Test Mounting Details:



Base Mounted-Rigid: Seven (7) 1/2" Grade 5 bolts with front & rear anchoring brackets (4mm thck), P/N: EN 1030-DC01 CFS
Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test.
Contents were included in testing per operating conditions.

UNIT UNDER TEST (UUT) SUMMARY SHEET

2000654-CR-001-R0



| | |
|---|---------------|
| Manufacturer: Schneider Electric | UUT 13 |
| Model Line: Galaxy VX, 500-1500kVA | |
| Model Number: Galaxy VS 250 kW Power Cabinet Serial Number: N/A | |

Product Construction Summary:
Carbon Steel Indoor Enclosure

Options/Subcomponent Summary:
Power Block (P/N: 0N-9850), Rectifier (P/N: 0N-96600), Contactor (P/N:LC1D115BD), Choke (420-0820), Fan Assembly (0N-1254), Power Supply (P/N: 0P3616), Fuse (P/N: 170M3473-SC)

UUT Properties

| Weight (lb) | Dimension (in) | | | Lowest Natural Frequency (Hz) | | |
|-------------|----------------|-------|--------|-------------------------------|-----------|----------|
| | Depth | Width | Height | Front-Back | Side-Side | Vertical |
| 1,162 | 35.4 | 23.6 | 77.6 | 7.5 | 8.0 | >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 | 1.85 | 1.0 | 1.5 | 2.96 | 2.22 | 1.23 | 0.49 |
| | | 1.85 | 0.0 | | | | | |

Test Mounting Details:



Base Mounted-Rigid: Seven (7) 1/2" Grade 5 bolts with front & rear anchoring brackets (4mm thick) P/N: EN 10130-DC01 CFS. Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test. Contents were included in testing per operating conditions.

UNIT UNDER TEST (UUT) SUMMARY SHEET

2000654-CR-001-R0



| | |
|---|---------------|
| Manufacturer: Schneider Electric | UUT 14 |
| Model Line: Galaxy VX, 500-1500kVA | |
| Model Number: 0G-GVXI1250KD | |
| Serial Number: U22033000799 | |

Product Construction Summary:
Carbon Steel Indoor Cabinet

Options/Subcomponent Summary:
Contractors (P/N: LC1F3330), Fan Assembly (P/N: 0N-2086), Molded Case Switch (P/N: 543-0076)

UUT Properties

| Weight (lb) | Dimension (in) | | | Lowest Natural Frequency (Hz) | | |
|-------------|----------------|-------|--------|-------------------------------|-----------|----------|
| | Depth | Width | Height | Front-Back | Side-Side | Vertical |
| 1,576 | 35.4 | 47.2 | 77.6 | 9.1 | 7.3 | 23.2 |

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 | 1.94 | 1.0 | 1.5 | 3.10 | 2.33 | 1.35 | 0.54 |
| | | 1.94 | 0.0 | | | | | |

Test Mounting Details:



Base Mounted-Rigid: Six (6) M16 x 45mm bolts with twelve (12) M16 flat washers and six (6) M16 split washers and nuts. Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test. Contents were included in testing per operating conditions.

UNIT UNDER TEST (UUT) SUMMARY SHEET

2000654-CR-001-R0



| | |
|--|---------------|
| Manufacturer: Schneider Electric | UUT 15 |
| Model Line: Galaxy VX, 500-1500kVA | |
| Model Number: GVXP250KD Serial Number: ID20390000523 | |

Product Construction Summary:
Carbon Steel Indoor Enclosure

Options/Subcomponent Summary:
Power Block (P/N: 0N-9850), Rectifier (P/N: 0N-96600), Pressure Chamber (P/N: 0N-10727)

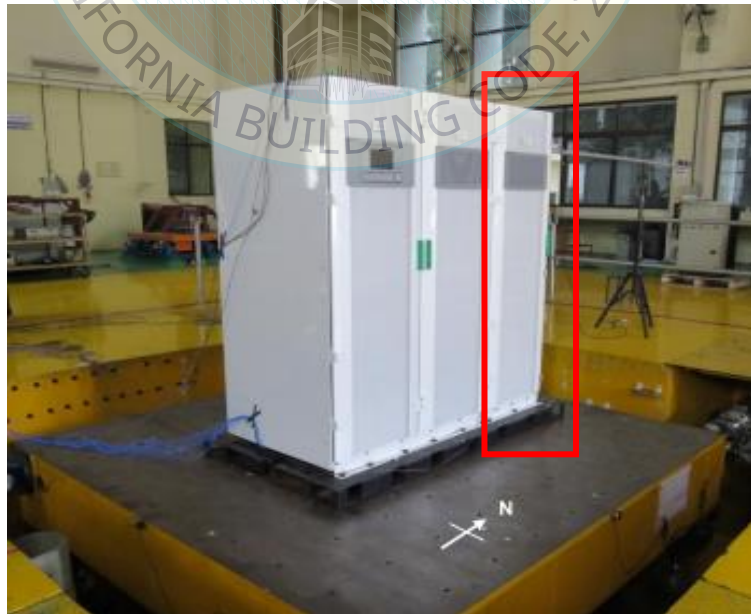
UUT Properties

| Weight (lb) | Dimension (in) | | | Lowest Natural Frequency (Hz) | | |
|-------------|----------------|-------|--------|-------------------------------|-----------|----------|
| | Depth | Width | Height | Front-Back | Side-Side | Vertical |
| 1,183 | 35.4 | 23.6 | 77.6 | 9.1 | 7.3 | 23.2 |

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 | 1.94 | 1.0 | 1.5 | 3.10 | 2.33 | 1.35 | 0.54 |
| | | 1.94 | 0.0 | | | | | |

Test Mounting Details:



Base Mounted-Rigid: Three (3) M16 x 45mm bolts with six (6) M16 flat washers and three (3) M16 split washers and nuts. Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test. Contents were included in testing per operating conditions.