



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

APPLICATION FOR HCAI SPECIAL SEISMIC
CERTIFICATION PREAPPROVAL (OSP)

OFFICE USE ONLY

APPLICATION #: OSP-0816

HCAI Special Seismic Certification Preapproval (OSP)

Type: New Renewal

Manufacturer Information

Manufacturer: Eaton Corporation

Manufacturer's Technical Representative: Don Caulfield

Mailing Address: 3301 Spring Forest Road, Raleigh, NC 27616

Telephone: (919) 871-1972 Email: DonaldCaulfield@Eaton.com

Product Information

Product Name: Samsung Gen-3

Product Model Number(s): 128S and 136S

Product Category: UPS and Batteries

Product Sub-Category: Batteries

General Description: Backup power system. Gen-3 128S (16 module-486V) and 136S (17 module -517V)

Mounting Description: Base Mounted Rigid -

Tested Seismic Enhancements: None

Applicant Information

Applicant Company Name: Pre Compliance

Contact Person: Katie Braman

Mailing Address: 36 SW Wall St, Bend, OR 97702

Telephone: (541) 241-2310 Email: katie@go-pre.com

Title: Pre Compliance



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

Company Name: PRE COMPLIANCE
Name: Andrew Coughlin California License Number: S6082
Mailing Address: 36 SW Wall Street, Bend, OR 97702
Telephone: (415) 635-8461 Email: Andy@go-pre.com

Certification Method

GR-63-Core ICC-ES AC156 IEEE 344 IEEE 693 NEBS 3
 Other (Please Specify): _____

Testing Laboratory

Company Name: ENVIRONMENTAL TESTING LABORATORIES, INC. (ETL)
Contact Person: Jeremy Lange
Mailing Address: 11034 Indian Trail, Dallas TX 75229-3513
Telephone: (972) 247-9657 Email: Jeremy@etldallas.com





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Seismic Parameters

Design Basis of Equipment or Components (F_p/W_p) = 1.44 for SDS = 2.0 with z/h =1 and 1.13 for SDS = 2.5 with z/h =0

SDS (Design spectral response acceleration at short period, g) = 2.0 at z/h=1.0, 2.50 at z/h =0

a_p (Amplification factor) = 1

R_p (Response modification factor) = 2.5

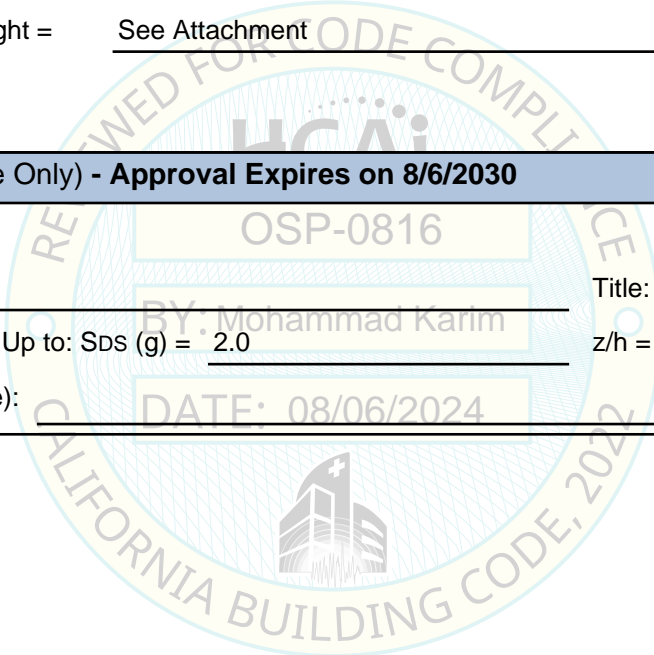
Ω_0 (System overstrength factor) = 2.0

I_p (Importance factor) = 1.5

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

Natural frequencies (Hz) = See Attachment

Overall dimensions and weight = See Attachment



HCAI Approval (For Office Use Only) - Approval Expires on 8/6/2030

Date: 8/6/2024

Name: Mohammad Karim Title: Supervisor, Health Facilities

Special Seismic Certification Valid Up to: SDS (g) = 2.0 z/h = 1

Condition of Approval (if applicable): DATE: 08/06/2024



UUT 1

Test Report# TR231321-01-R0

Manufacturer: Eaton Corporation
Model Line: Samsung Gen-3
Model Number: 136S
Serial Number: N/A

Highest Passed Test Level						
S _{DS}	z/h	I _p	A _{flx-h}	A _{rig-h}	A _{flx-v}	A _{rig-v}
2.0	1		3.2	2.4	1.67	0.67
2.5	0	1.5				

Dimensions/Weights			
Depth (in)	Width (in)	Height (in)	Weight (lbs.)
20.6	25.6	87.1	1127

Lowest Natural Frequency (Hz)		
Front-Back	Side-Side	Vertical
8.12	9.24	>33.3

Building Codes
CBC 2022

Test Criteria
ICC-ES AC156

Construction/Option Summary
17 Battery Modules

UUT Mounting Details:

List of Included Subcomponents



Description	Model #
CLB Assembly	P-103004195
Battery Module B	P-153000050-102
Battery Module A	P-153000050-101
SDI V3 BCU	V049-0032AA
Fuse	170M6408
CLB Assembly	P-103004195
Logic Power Module, DC-AC	P-103004195-002
Logic Power Module, DC-AC	P-103004195-001
BMS Assembly	V044-0023AA
Enclosure Assembly	P-103004193

UUT 1 mounted to shake table plate with six (6) 1/2" Grade 5 hex bolts with washers and Eaton mounting brackets P/N: P-157006023 (Seismic LXP-P Rear Bracket), P-157006024 (Seismic LXP-P Rear Plate), P-157006177 (Seismic LXP-P Front Bracket).

Unit maintained structural integrity and remained operational per manufacturer requirement following shake table test. All contents were included in the unit per operating conditions.

