



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-0822

HCAI Special Seismic Certification Preapproval (OSP)

Type: New Renewal

Manufacturer Information

Manufacturer: Schneider Electric (China) Co., Ltd Shanghai Pudong Branch

Manufacturer's Technical Representative: King Liu

Mailing Address: Building 9, No 3000, Longdong Ave.

Telephone: +86-18516279629

Email: xuejun-king.liu@se.com

Product Information

Product Name: Galaxy Lithium-Ion Battery Systems Advanced

Product Model Number(s): Varies. See Attachment

Product Category: UPS and Batteries

Product Sub-Category: Batteries

General Description: Galaxy Lithium-Ion Battery Cabinet Advanced with N'2.76 kWh battery modules (N=8,9,10,11,12)

Mounting Description: Base Mounted Rigid -

Tested Seismic Enhancements: None

Applicant Information

Applicant Company Name: Pre Compliance

Contact Person: Galen Reid

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

Telephone: (541) 241-2310

Email: galen@go-pre.com

Title: Principal & Program Manager





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

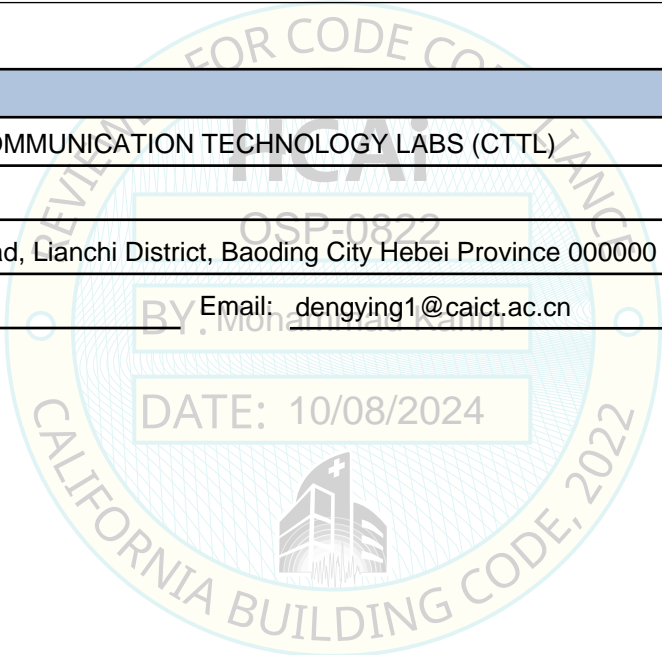
Company Name: PRE COMPLIANCE
Name: Andrew Coughlin California License Number: S6082
Mailing Address: 36 SW Wall Street, Bend, OR 97702
Telephone: (415) 635-8461 Email: Andy@go-pre.com

Certification Method

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

Testing Laboratory

Company Name: CHINA TELECOMMUNICATION TECHNOLOGY LABS (CTTL)
Contact Person: Ying Deng
Mailing Address: 299 Tengfei Road, Lianchi District, Baoding City Hebei Province 000000
Telephone: (8613) 810-9099 Email: dengying1@caict.ac.cn





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Seismic Parameters

Design Basis of Equipment or Components (F_p/W_p) = 1.44 at z/h=1; 1.13 at z/h=0

SDS (Design spectral response acceleration at short period, g) = 2.0 at z/h=1; 2.5 at z/h=0

a_p (Amplification factor) = 1

R_p (Response modification factor) = 2.5

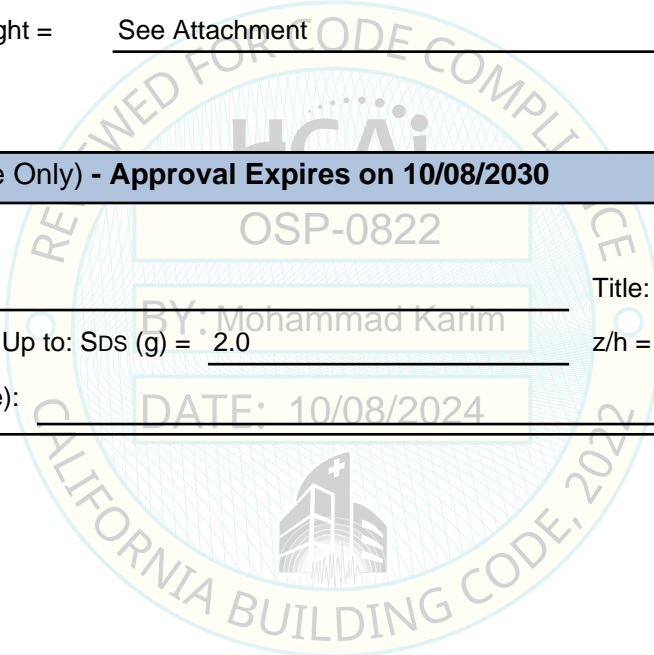
Ω_0 (System overstrength factor) = 2.0

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 10/08/2030

Date: 10/8/2024

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: 10/08/2024





SPECIAL SEISMIC CERTIFICATION CERTIFIED COMPONENTS

Pre No. CC241418-01-R0

Manufacturer: Schneider Electric
Product Type: Batteries
Model Line: Galaxy Lithium Ion

Seismic Parameters
 $S_{DS} = 2.0g$ for $z/h=1$
 $S_{DS} = 2.5g$ for $z/h=0$
 $I_p = 1.5$

Building Codes
CBC 2022

TABLE 1 Mounting Configuration: Base Mounted - Rigid

Construction Summary

Carbon steel enclosure

Options Summary

8, 9, 10, 11, or 12 Battery Modules

Model Line	Model	Max. Dimensions (in)			Wt. (lb)	Notes	UUT
		D	W	H			
Galaxy Lithium Ion Battery Cabinet Advanced	LIBSEGLA8X54	31.0	23.6	59.1	834	8-Module System	1
	LIBSEGLA9X54	31.0	23.6	59.1	903	9-Module System	Interp.
	LIBSEGLA10X54	31.0	23.6	59.1	971	10-Module System	Interp.
	LIBSEGLA11X54	31.0	23.6	59.1	1039	11-Module System	Interp.
	LIBSEGLA12X54	31.0	23.6	59.1	1108	12-Module System	2

SPECIAL SEISMIC CERTIFICATION CERTIFIED SUBCOMPONENTS

Manufacturer: Schneider Electric
Product Type: Batteries
Model Line: Galaxy Lithium Ion

Seismic Parameters	
$S_{DS} = 2.0g$ for $z/h=1$	$I_p = 1.5$
$S_{DS} = 2.5g$ for $z/h=0$	

Building Codes
CBC 2022

TABLE 2	Table Description: Subcomponents
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Component (Manufacturer)	Model	Description	Notes	UUT
Cabinet (Schneider)	LIBSEGLACAB1500	Galaxy Lithium-ion battery Cabinet Advanced - 1500mm high empty rack		1,2
Battery Module (Schneider)	LIBSEGLAMOD54	Schneider 2.76KWh 54Ah Lithium-ion Battery Module Advanced		1,2
HMI (Schneider)	LIBSEGLAOPT001	7 inches LCD option for 1500mm high Galaxy Li-Ion Battery Cabinet Advanced		2
BMS (Schneider)	LIBSEGLAOPT002	System BMS option for Galaxy Li-Ion Battery Cabinet Advanced		1,2
Seismic Kit (Schneider)	LIBSEGLAOPT003	Seismic Kit option for 1500mm high Galaxy Li-Ion Battery Cabinet Advanced		1,2



UUT 1

Test Report# 24B02X800266-001

Manufacturer: Schneider Electric
Model Line: Galaxy Lithium Ion
Model Number: LIBSEGLA8X54
Serial Number: OJ2413Y20000

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	1.68	0.68
2.5	0	1.5				

Dimensions/Weights			
Depth (in)	Width (in)	Height (in)	Weight (lbs.)
31.0	23.6	59.1	834

Lowest Natural Frequency (Hz)		
Front-Back	Side-Side	Vertical
13.8	12.1	28.1

Building Codes	Test Criteria	Construction/Option Summary
CBC 2022	ICC-ES AC156	8 Battery Module System

UUT Mounting Details:	List of Included Subcomponents
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Description	Model #
Battery Cabinet	LIBSEGLACAB1500
Battery Module	LIBSEGLAMOD54
BMS	LIBSEGLAOPT002
Seismic Kit	LIBSEGLAOPT003

UUT was rigid base mounted to the table using (8) Grade 8.8 M12 screws.
 Unit maintained structural integrity and remained operational per manufacturer requirement following shake table test. All contents were included in the unit per operating conditions.

UUT 2

Test Report# 24B02X800261-001

Manufacturer: Schneider Electric
Model Line: Galaxy Lithium Ion
Model Number: LIBSEGLA12X54
Serial Number: OJ2413Y20001

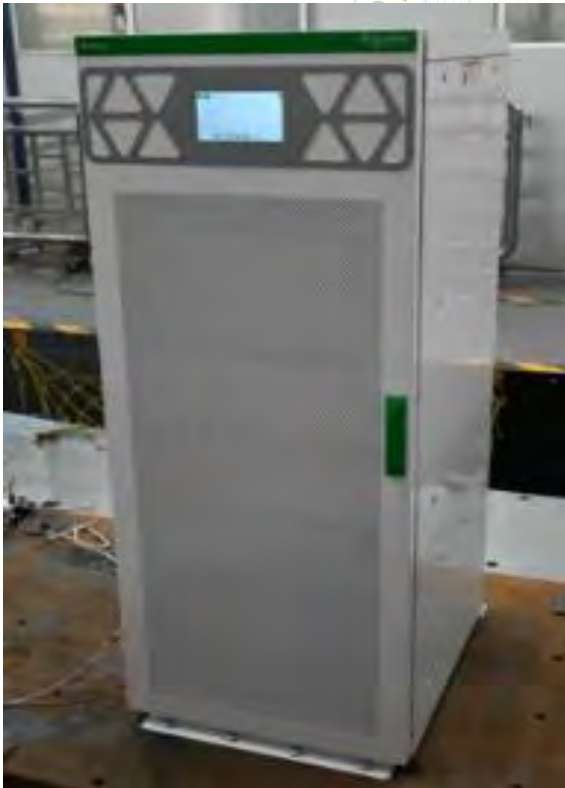
Highest Passed Test Level						
S _{DS}	z/h	I _p	A _{flx-h}	A _{rig-h}	A _{flx-v}	A _{rig-v}
2.0	1	1.5	3.2	2.4	1.68	0.68
2.5	0					

Dimensions/Weights			
Depth (in)	Width (in)	Height (in)	Weight (lbs.)
31.0	23.6	59.1	1108

Lowest Natural Frequency (Hz)		
Front-Back	Side-Side	Vertical
14.8	12.1	33.3

Building Codes	Test Criteria	Construction/Option Summary
CBC 2022	ICC-ES AC156	12 Battery Module System

UUT Mounting Details: **List of Included Subcomponents**



Description	Model #
Battery Cabinet	LIBSEGLACAB1500
Battery Module	LIBSEGLAMOD54
HMI	LIBSEGLAOPT001
BMS	LIBSEGLAOPT002
Seismic Kit	LIBSEGLAOPT003

UUT was rigid base mounted to the table using (8) Grade 8.8 M12 screws.
 Unit maintained structural integrity and remained operational per manufacturer requirement following shake table test. All contents were included in the unit per operating conditions.