



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-0884

HCAI Special Seismic Certification Preapproval (OSP)

Type: New Renewal

Manufacturer Information

Manufacturer: Xiamen Ampace Technology Limited

Manufacturer's Technical Representative: Liang Yunzhao

Mailing Address: No.600 Hongtang Road, Tongxiang High-tech Zone, Torch High-tech District, Xiamen City, Fujian Province, P.R. China

Telephone: +86 (592) 395-2222 Email: XMTVL-Certification@Ampacetech.com

Product Information

Product Name: Lithium Ion Battery System

Product Model Number(s): Varies. See Attachment

Product Category: UPS and Batteries

Product Sub-Category: Batteries

General Description: Lithium Ion Battery System

Mounting Description: Base Mounted Rigid

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: Pre Compliance

Contact Person: Galen Reid

Mailing Address: 324 NW Hill St., Bend, OR 97703

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

Title: Principal & Program Manager

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STATE OF CALIFORNIA – HEALTH AND HUMAN SERVICES AGENCY



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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: 324 NW Hill St, Bend, OR 97703

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: (8603) 126-7989 Email: dengying1@caict.ac.cn

BY: Mohammad Karim

DATE: 01/26/2026

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Seismic Parameters

Certified Response Spectral Acceleration Factors: (F_p/W_p)

Horizontal (A Flx-H), g= 3.20 (A Rig-H), g= 2.15

Vertical (A Flx-V), g= 1.67 (A Rig-V), g= 0.67

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

Hf (Force amplification height factor) = 1 @ z/h = 0; 3.5 @ z/h = 1

Ru (Structure ductility reduction factor) = 1 @ z/h = 0; 1.3 @ z/h = 1

I_p (Importance factor) = 1.5

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

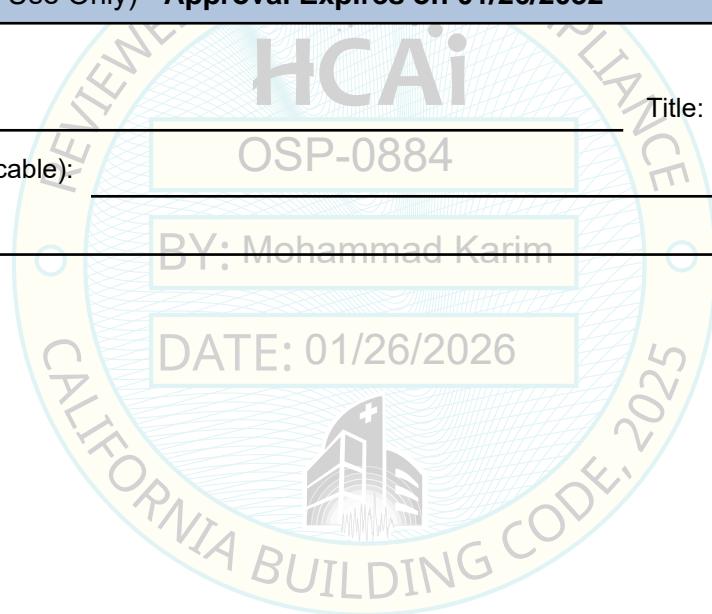
HCAi Approval (For Office Use Only) - Approval Expires on 01/26/2032

Date: 1/26/2026

Name: Mohammad Karim

Title: Supervisor, Health Facilities

Condition of Approval (if applicable): _____



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Pre No. CC251800-01-RO

SPECIAL SEISMIC CERTIFICATION CERTIFIED COMPONENTS

Manufacturer: Xiamen Ampace Technology Limited

Seismic Parameters

Building Codes

Product Type: Batteries

$S_{DS} = 2.00g$ for $z/h=1, R_{\mu}=1.3, H_f=3.5$

$I_p=1.5$

CBC 2025

Model Line: Lithium Ion Battery System

$S_{DS} = 2.50g$ for $z/h=0, R_{\mu}=1.0, H_f=1.0$

TABLE 1

Mounting Configuration: Base Mounted - Rigid

Construction Summary

Carbon steel cabinet

Options Summary

7-12 Battery Cells

Model Line	Model	Max. Dimensions (in)			Wt. (lb)	Notes	UUT
		D	W	H			
Lithium Ion Battery System	U-S35892SA1	35	23.6	80.7	1288	7 Battery Cells	2
	U-S40992SA1	35	23.6	80.7	1411	8 Battery Cells	Interp.
	U-S46092SA1	35	23.6	80.7	1521	9 Battery Cells	Interp.
	U-S51292SA1	35	23.6	80.7	1632	10 Battery Cells	Interp.
	U-S56392SA1	35	23.6	80.7	1742	11 Battery Cells	Interp.
	U-S61492SA1	35	23.6	80.7	1843	12 Battery Cells	1
BY: Mohammad Karim							
DATE: 01/26/2026							



Pre No. CC251800-01-RO

SPECIAL SEISMIC CERTIFICATION CERTIFIED SUBCOMPONENTS

Manufacturer: Xiamen Ampace Technology Limited
Product Type: Batteries
Model Line: Lithium Ion Battery System

Seismic Parameters

Building Codes

$S_{DS} = 2.00g$ for $z/h=1, R_\mu=1.3, H_f=3.5$

1-15

CBC 2025

TABLE 2

Table Description: Electrical Components

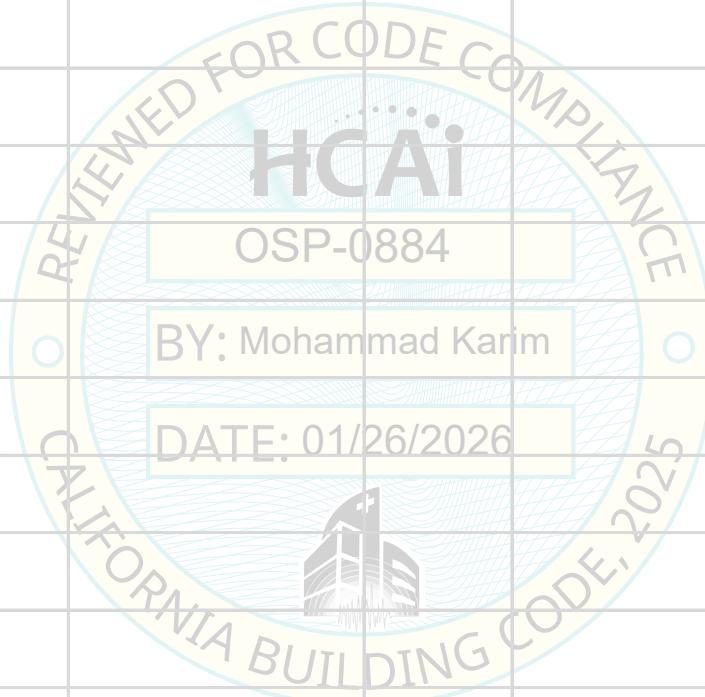
Component	Manufacturer	Model	Description	UUT
Battery Cell	Xiamen Ampace Technology Limited	D2C24A	3.2VDC, 46Ah, 147.2Wh	1,2
Relay	Xiamen Hongfa Electroacoustic Co. Ltd.	HFE88P-800/1000-24-HA-C5-6	1000V, 800A, 85°C	1,2
Pre-charge Relay	TDK Corporation	HVC43-150A-24	1000V, 150A, 70°C	1,2
AC-DC Power Supply	Guangzhou Xuzhiyuan Technology Co., Ltd	AI120-6DB24	Input: 180-600Vac, Output: 24V, 120W, 70°C, 5000m altitude	1,2
AC-DC Power Supply	Guangzhou Xuzhiyuan Technology Co., Ltd	AI120-B24S	Input: 90-264Vac, Output: 24V, 120W, 60°C, 5000m altitude	1,2
AC Circuit Breaker	Nader	NDB2-63D5/2	480V, 5A, 70°C	1,2



Pre No. CC251800-01-RO

SPECIAL SEISMIC CERTIFICATION TESTING SUMMARY

UUT	Model	Test Report	Test Date	Test Laboratory	S _{DS}	z/h	R _μ	H _f	I _p
1	U-S61492SA1	25T04X801579-001	10/30/25	CAICT	2.0 2.5	1 0	1.3 1.0	3.5 1.0	1.5
2	U-S35892SA1	25T04X801580-001	11/10/25	CAICT	2.0 2.5	1 0	1.3 1.0	3.5 1.0	1.5



Notes:

UUT 1

Test Report# 25T04X801579-001

Manufacturer: Xiamen Ampace Technology Limited
Model Line: Lithium Ion Battery System
Model Number: U-S61492SA1
Serial Number: N/A

Highest Passed Test Level									
S _{DS}	z/h	R _μ	H _f	I _p	A _{flx-h}	A _{rig-h}	A _{flx-v}	A _{rig-v}	
2.00	1.0	1.3	3.5	1.5	3.20	2.15	1.67	0.67	
2.50	0.0	1.0	1.0						

Dimensions/Weights

Depth (in)	Width (in)	Height (in)	Weight (lbs.)
35	23.6	80.7	1843

Lowest Natural Frequency (Hz)

Front-Back Side-Side Vertical

Building Codes

CBC 2025

Test Criteria

ICC-ES AC156-24

Construction/Option Summary

Cabon steel cabinet.
12 battery cells.

UUT Mounting Details:



List of Included Subcomponents

Description (Manufacturer)	Model #
Battery Cell (Xiamen Ampace Technology Limited)	D2C24A
Relay (Xiamen Hongfa Electroacoustic Co. Ltd.)	HFE88P-800/1000-24-HA-C5-6
Pre Charge Relay (TDK Corporation)	HVC43-150A-24
AC-DC Power Supply (Guangzhou Xuzhiyuan Technology Co., Ltd.)	AI120-6DB24
AC-DC Power Supply (Guangzhou Xuzhiyuan Technology Co., Ltd.)	AI120-B24S
AC Circuit Breaker (Nader)	NDB2-63D5/2

UUT was rigid base mounted using (5) 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.

SPECIAL SEISMIC CERTIFICATION UUT SUMMARY

UUT 2

Test Report# 25T04X801580-001

Manufacturer: Xiamen Ampace Technology Limited
Model Line: Lithium Ion Battery System
Model Number: U-S35892SA1
Serial Number: N/A

Highest Passed Test Level									
S _{DS}	z/h	R _μ	H _f	I _p	A _{flx-h}	A _{rig-h}	A _{flx-v}	A _{rig-v}	
2.00	1.0	1.3	3.5	1.5	3.20	2.15	1.67	0.67	
2.50	0.0	1.0	1.0						

Dimensions/Weights

Depth (in) Width (in) Height (in) Weight (lbs.)

Lowest Natural Frequency (Hz)

Front-Back	Side-Side	Vertical
9.77	5.14	22.27

Building Codes

CBC 2025

Test Criteria

ICC-ES AC156-24

Construction/Option Summary

Cabon steel cabinet.
7 battery cells.

UUT Mounting Details:



List of Included Subcomponents

Description (Manufacturer)	Model #
Battery Cell (Xiamen Ampace Technology Limited)	D2C24A
Relay (Xiamen Hongfa Electroacoustic Co. Ltd.)	HFE88P-800/1000-24-HA-C5-6
Pre Charge Relay (TDK Corporation)	HVC43-150A-24
AC-DC Power Supply (Guangzhou Xuzhiyuan Technology Co., Ltd.)	AI120-6DB24
AC-DC Power Supply (Guangzhou Xuzhiyuan Technology Co., Ltd.)	AI120-B24S
AC Circuit Breaker (Nader)	NDB2-63D5/2

UUT was rigid base mounted using (5) 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.