

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

APPLICATION FOR HCAI SPECIAL SEIS	OFFICE USE ONLY						
CERTIFICATION PREAPPROVAL (OSP)	APPLICATION #: OSP-0862						
HCAI Special Seismic Certification Preapproval (OS	SP)						
Type: X New Renewal							
Manufacturer Information							
Manufacturer: Xiamen Ampace Technology Limited							
Manufacturer's Technical Representative: Li Jingke							
Mailing Address: No. 600 Hongtang Road, Tongxiang High- 361000	tech Zone, Torch High-tech District, Xiamen City, Fujian Province						
Telephone: (6592) 395-2222 Email: >	XMTVL-Certification@Ampacetech.com						
Product Information							
Product Name: Lithium Ion Battery System							
Product Model Number(s): Varies. See Attachment	CUAN A						
Product Category: UPS and Batteries	SP-0862						
Product Sub-Category: Batteries							
General Description: Lithium Ion Battery System Moha	ammad Karim O						
Mounting Description: Base Mounted Rigid -							
Tested Seismic Enhancements: None DATE: 08/08/2025							
Applicant Information							
Applicant Company Name: Pre Compliance							
Contact Person: Galen Reid	ILDING						
Mailing Address: 324 NW Hill St., Bend, OR 97703							
Telephone: (541) 241-2310 Email: g	galen@go-pre.com						



"A healthier California where all receive equitable, affordable, and quality health care"

STATE OF CALIFORNIA - HEALTH AND HUMAN SERVICES AGENCY

Title: Principal and Program Manager



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

California Licensed Structural Eng	ineer Respon	sible for the Engin	eering and Test Repo	rt(s)
Company Name: PRE COMPLIANCE				
Name: Andrew Coughlin		California Lice	ense Number: S6082	
Mailing Address: 324 NW Hill St, Bend,	OR 97703			
Telephone: (415) 635-8461	Emai	il: Andy@go-pre.com	1	
Certification Method				
GR-63-Core X ICC-ES	S AC156	IEEE 344	IEEE 693	NEBS 3
Other (Please Specify):				
Tarthau Labaurtana				
Testing Laboratory	, u.o. 45160 - 5-01		<u> </u>	
Company Name: CHINA TELECOMMU	NICATION TEC	HNOLOGY LABS (C)	11)	
Contact Person: Ying Deng				
Mailing Address: 299 Tengfei Road, Lia	nchi District, Ba	oding City Hebei Prov	ince 000000	
Telephone: (8603) 126-7989	Emai	il: dengying1@caict.a	ac.cn	
	BY: M	ohammad Karim		
	DATE	: 08/08/2025	Dr.	
	MAE	BUILDING		

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

Seismic Parameters

Certified Response Spectral Acceleration Factors:(Fp/Wp)

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) = 2.0 @ z/h = 1; 2.5 @ z/h = 0

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

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

Ip (Importance factor) = 1.5

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

HCAI Approval (For Office Use Only) - Approval Expires on 08/08/2031

Date: 8/8/2025

Name: Mohammad Karim Title: Supervisor, Health Facilities

Condition of Approval (if applicable):

DATE: 08/08/2025

Mohammad Karim







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SPECIAL SEISMIC CERTIFICATION CERTIFIED COMPONENTS

Manufacturer: Xiamen Ampace Technology Limited

Lithium Ion Battery System

Seismic Parameters

Building Codes

Product Type: Model Line:

Batteries

 $S_{DS} = 2.00g$ for $R_{\mu}=1.3$, $H_f=3.5$ $S_{DS} = 2.50g$ for $R_{\mu}=1.0$, $H_f=1.0$

 $I_{p} = 1.5$

CBC 2025

TADIE 1

Mounting Configuration: Base Mounted - Rigid

Construction Summary

Options Summary

Carbon steel enclosure

8 - 12 Battery Modules

Model Line	Model	Max. Dimensions (in)		Wt.	Notes	UUT	
Widdier Emile		D	W	Н	(lb)		
	U-S409104SA1	39.4	23.6	78.7	1433	8 Battery Modules	Interp.
	U-S409104SB1	39.4	23.6	78.7	1449	8 Battery Modules	Interp.
	U-S460104SA1	39.4	23.6	78.7	1552	9 Battery Modules	1
Lithium Ion	U-S5121 <mark>04SA</mark> 1	39.4	23.6	78.7	1676	10 Battery Modules	Interp.
Battery System	U-S512 <mark>104S</mark> B1	39.4	23.6	78.7	1689	10 Battery Modules	Interp.
	U-S563 <mark>104S</mark> A1	39.4	23.6	78.7	1795	11 Battery Modules	Interp.
	U-S614 <mark>104S</mark> A1	39.4	23.6	78.7	1900	12 Battery Modules	2
	U-S614 <mark>104S</mark> B1	39.4	23.6	78.7	1929	12 Battery Modules	Interp.
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SPECIAL SEISMIC CERTIFICATION CERTIFIED SUBCOMPONENTS

Manufacturer: Xiamen Ampace Technology Limited

Lithium Ion Battery System

Seismic Parameters

Building Codes

Product Type: Model Line: **Batteries**

 $S_{DS} = 2.00g$ for $R_{\mu}=1.3$, $H_f=3.5$ $S_{DS} = 2.50g$ for $R_{u}=1.0$, $H_f=1.0$

 $I_p = 1.5$

CBC 2025

TARIF 2

Table Description: Electrical Subcomponents

Component (Manufacturer)	Model	Description	Notes	UUT
Battery Module (Xiamen Ampace Technology Ltd.)	D1C24A	3.2Vdc,52.0Ah, 166.4Wh		1,2
Relay (Xiamen Hongfa Electroacoustic Co. Ltd.)	HFE88P-6001000-24- HA-C5-6	1000 Vdc, 600 A		1,2
Pre-charge Relay (Xiamen Hongfa Electroacoustic Co. Ltd.)	HFE82P-20/1000-24- H-Q2J-1	OSP-0862 1000 Vdc, 15A BY: Mohammad Karim		1,2
AC-DC Power Supplies (Mean Well	WDR-120-24	input 200 ~ 500 Vac, 1,4 A, 50/60 Hz, output 24 Vdc, 5A		1,2
Enterprises Co. Ltd.) WDR-480-24		Input: 200~500 Vac; 4 A; 50/60 Hz, Output: 24 Vdc, 20A		1,2
Circuit Breaker (Schneider Electric)	Series NSX 630 DC	1000 V,600 A		1,2
AC Circuit Breakers (Shanghai	NDB2-63C10	480 Vac, 10 A, SC 7.5 kA		1,2
Liangxin Electrical Co. Ltd.)	NDB2-63D10	480 Vac, 10 A, SC 7.5 kA		1,2

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SPECIAL SEISMIC CERTIFICATION TESTING SUMMARY

UUT	Model	Test Report	Test Laboratory	S _{DS}	R_{μ}	H _f	I _p
1	U-S460104SA1	25T04X800304-001	CAICT	2.0 2.5	1.3 1.0	3.5 1.0	1.5
2	U-S614104SA1	25T04X800468-001	CAICT	2.0 2.5	1.3 1.0	3.5 1.0	1.5
		OP CO	DE				
		E FOR CO	OND				
	/	S HC	DE COMPA				
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	0	BY: Mohamn	nad Karim O				
		DATE: 08/0	08/2025				
			2				
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Notes:							

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SPECIAL SEISMIC CERTIFICATION UUT SUMMARY

Ulut 1

Test Report# 25T04X800304-001

Manufacturer: Xiamen Ampace Technology Limited

Model Line: Lithium Ion Battery System

Model Number: U-S460104SA1

Serial Number: N/A

Highest Passed Test Level							
S _{DS}	R_{μ}	H_f	I _p	A_{flx-h}	A_{rig-h}	A_{flx-v}	A_{rig-v}
2.0	1.3	3.5	15	2 20	2.15	1 67	0.67
2.5	1.0	1.0	1.5	3.20	2.13	1.07	0.07

Dimensions/Weights

Depth (in) Width (in) Height (in) Weight (lbs.) 39.4 23.6 78.7 1552

Lowest Natural Frequency (Hz)

Front-Back Side-Side Vertical 13.28 6.25 26.50

Building Codes

Test Criteria

Construction/Option Summary

CBC 2025 ICC-ES AC156

Carbon steel enclosure

UUT Mounting Details:



UUT was rigid base mounted using (5) Grade 8.8 M16 bolts.

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

List of Included Subcomponents							
Description	Model #						
mmad KaBattery Module	D1C24A						
Relay	HFE88P-6001000-24-HA- C5-6						
8/08/2025 Pre-charge Relay	HFE82P-20/1000-24-H- Q2J-1						
AC-DC Power Supplies	WDR-120-24						
Ao Do Tower Supplies	WDR-480-24						
	Series NSX 630 DC						
Circuit Breakers	NDB2-63C10						
	NDB2-63D10						



SPECIAL SEISMIC CERTIFICATION **UUT SUMMARY**

UUT 2

Test Report# 25T04X800468-001

Manufacturer: Xiamen Ampace Technology Limited

Model Line: Lithium Ion Battery System

Model Number: U-S614104SA1

Serial Number: N/A

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	•				A _{rig-h}		•
2.0	1.3	3.5	15	3 20	2.15	1 67	0.67
2.5	1.0	1.0	1.5	3.20	2.13	1.07	0.07

Dimensions/Weights

Depth (in) Width (in) Height (in) Weight (lbs.) 39.4

1900 23.6 78.7

Lowest Natural Frequency (Hz)

Side-Side Front-Back Vertical 11.72 4.69 23.05

Building Codes

CBC 2025

Test Criteria

Construction/Option Summary

ICC-ES AC156

Carbon steel enclosure

List of Included Subcomponents

UUT Mounting Details:



Description	Model #
phammad KaBattery Module	D1C24A
Relay 08/08/2025	HFE88P-6001000-24-HA- C5-6
Pre-charge Relay	HFE82P-20/1000-24-H- Q2J-1
AC-DC Power Supplies	WDR-120-24
AC-DC Power Supplies	WDR-480-24
	Series NSX 630 DC
UILDING Circuit Breakers	NDB2-63C10
	NDB2-63D10

UUT was rigid base mounted using (5) Grade 8.8 M16 bolts.

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