



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-0862

HCAI Special Seismic Certification Preapproval (OSP)

Type: ☒ New ☐ Renewal

Manufacturer Information

Manufacturer: Xiamen Ampace Technology Limited

Manufacturer's Technical Representative: Li Jingke

Mailing Address: No. 600 Hongtang Road, Tongxiang High-tech Zone, Torch High-tech District, Xiamen City, Fujian Province 361000

Telephone: (6592) 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: None

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 and 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: 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: 08/08/2025



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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,  $g$ ) = 2.0 @  $z/h = 1$ ; 2.5 @  $z/h = 0$

H<sub>f</sub> (Force amplification height factor) = 1 @  $z/h = 0$ ; 3.5 @  $z/h = 1$

R<sub>u</sub> (Structure ductility reduction factor) = 1 @  $z/h = 0$ ; 1.3 @  $z/h = 1$

I<sub>p</sub> (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): \_\_\_\_\_

BY: Mohammad Karim

DATE: 08/08/2025



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

|   |           |
|---|-----------|
| $S_{DS} = 2.00g$ for $R_{\mu}=1.3, H_f=3.5$ | $I_p=1.5$ |
| $S_{DS} = 2.50g$ for $R_{\mu}=1.0, H_f=1.0$ |           |

**CBC 2025**

**Mounting Configuration: Base Mounted - Rigid**

## Options Summary

## 8 - 12 Battery Modules

[illegible]

# SPECIAL SEISMIC CERTIFICATION CERTIFIED SUBCOMPONENTS

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

## Seismic Parameters

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

## Building Codes

$I_p=1.5$  **CBC 2025**

## TABLE 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 | 1000 Vdc, 15A   |       | 1,2 |
| AC-DC Power Supplies (Mean Well Enterprises Co. Ltd.)       | WDR-120-24                | Input 200 ~ 500 Vac, 1.4 A, 50/60 Hz, output 24 Vdc, 5A |       | 1,2 |
|   | 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 Liangxin Electrical Co. Ltd.) | NDB2-63C10                | 480 Vac, 10 A, SC 7.5 kA                                |       | 1,2 |
|   | NDB2-63D10                | 480 Vac, 10 A, SC 7.5 kA                                |       | 1,2 |
|   |                           |   |       |     |
|   |                           |   |       |     |
|   |                           |   |       |     |
|   |                           |   |       |     |
|   |                           |   |       |     |
|   |                           |   |       |     |
|   |                           |   |       |     |
|   |                           |   |       |     |
|   |                           |   |       |     |



# SPECIAL SEISMIC CERTIFICATION TESTING SUMMARY





# UUT 1

**Manufacturer:** Xiamen Ampace Technology Limited  
**Model Line:** Lithium Ion Battery System  
**Model Number:** U-S460104SA1  
**Serial Number:** N/A

| $S_{\text{DS}}$ | $R_{\mu}$ | $H_f$ | $I_p$ | $A_{\text{flx-h}}$ | $A_{\text{rig-h}}$ | $A_{\text{flx-v}}$ | $A_{\text{rig-v}}$ |
|-----------------|-----------|-------|-------|--------------------|--------------------|--------------------|--------------------|
| 2.0             | 1.3       | 3.5   | 1.5   | 3.20               | 2.15               | 1.67               | 0.67               |
| 2.5             | 1.0       | 1.0   |       |                    |                    |                    |                    |

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

| Front-Back | Side-Side | Vertical |
|------------|-----------|----------|
| 13.28      | 6.25      | 26.50    |

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## ICC-ES AC156

Carbon steel enclosure

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# UUT 2

**Manufacturer:** Xiamen Ampace Technology Limited  
**Model Line:** Lithium Ion Battery System  
**Model Number:** U-S614104SA1  
**Serial Number:** N/A

| $S_{DS}$ | $R_{\mu}$ | $H_f$ | $I_p$ | $A_{flx-h}$ | $A_{rig-h}$ | $A_{flx-v}$ | $A_{rig-v}$ |
|----------|-----------|-------|-------|-------------|-------------|-------------|-------------|
| 2.0      | 1.3       | 3.5   | 1.5   | 3.20        | 2.15        | 1.67        | 0.67        |
| 2.5      | 1.0       | 1.0   |       |             |             |             |             |

| Depth (in) | Width (in) | Height (in) | Weight (lbs.) |
|------------|------------|-------------|---------------|
| 39.4       | 23.6       | 78.7        | 1900          |

| Front-Back | Side-Side | Vertical |
|------------|-----------|----------|
| 11.72      | 4.69      | 23.05    |

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## ICC-ES AC156

### Carbon steel enclosure

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