



**DEPARTMENT OF HEALTH CARE ACCESS AND INFORMATION
FACILITIES DEVELOPMENT DIVISION**

**APPLICATION FOR HCAI SPECIAL SEISMIC
CERTIFICATION PREAPPROVAL (OSP)**

OFFICE USE ONLY

APPLICATION #: OSP-0739

HCAI Special Seismic Certification Preapproval (OSP)

Type: New Renewal

Manufacturer Information

Manufacturer: FranklinWH Technologies Co., Ltd.

Manufacturer's Technical Representative: Jeremy Lin

Mailing Address: Rm 301, Bldg 5A Skyworth Innovation Park, No 8 Tangtou 1st Rd, Baoan District, Shenzhen, Guangdong, China

Telephone: (+86) 0755-27804397

Email: jeremy.lin@franklinwh.com

Product Information

Product Name: UPS and Batteries

Product Type: Batteries

Product Model Number: Franklin Home Power Solution

General Description: Backup power solution consisting of APower X and AGate X

Mounting Description: Rigid, Wall Mounted

Tested Seismic Enhancements: None

DATE: 06/03/2022

Applicant Information

Applicant Company Name: TRU Compliance, by Structural Integrity Associates, Inc.

Contact Person: Galen Reid

Mailing Address: 233 SW Wilson Ave Suite 101, Bend, OR 97702

Telephone: (541) 604-7225

Email: greid@structint.com

Title: Director, TRU Compliance





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

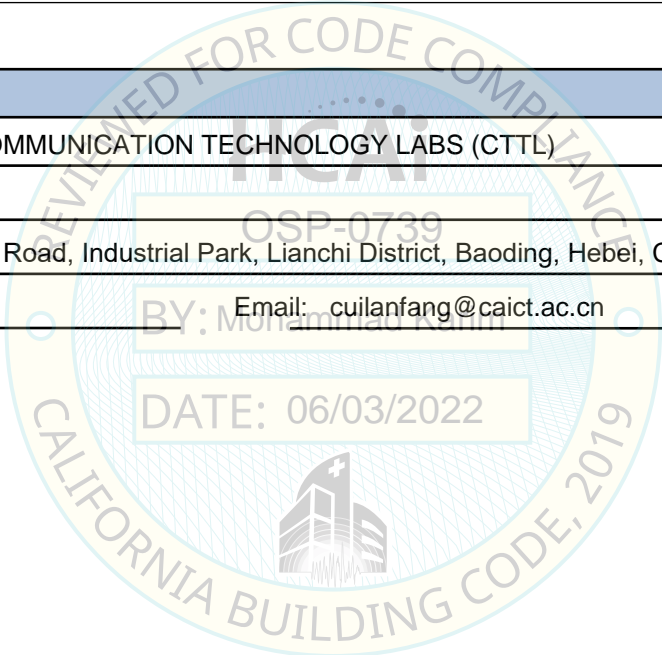
Company Name: STRUCTURAL INTEGRITY ASSOCIATES, INC.
Name: Andrew Coughlin California License Number: S6082
Mailing Address: 5215 Hellyer Ave, Suite 101, San Jose, CA 95138-1025
Telephone: (415) 635-8461 Email: acoughlin@structint.com

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: Lanfang Cui
Mailing Address: No.299, Tengfei Road, Industrial Park, Lianchi District, Baoding, Hebei, China
Telephone: +86 0312-6798950 Email: cuilanfang@caict.ac.cn





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Seismic Parameters

Design Basis of Equipment or Components (F_p/W_p) = 1.5 (SDS = 2.0); 1.13 (SDS = 2.5)

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

a_p (Amplification factor) = 2.5

R_p (Response modification factor) = 6.0

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

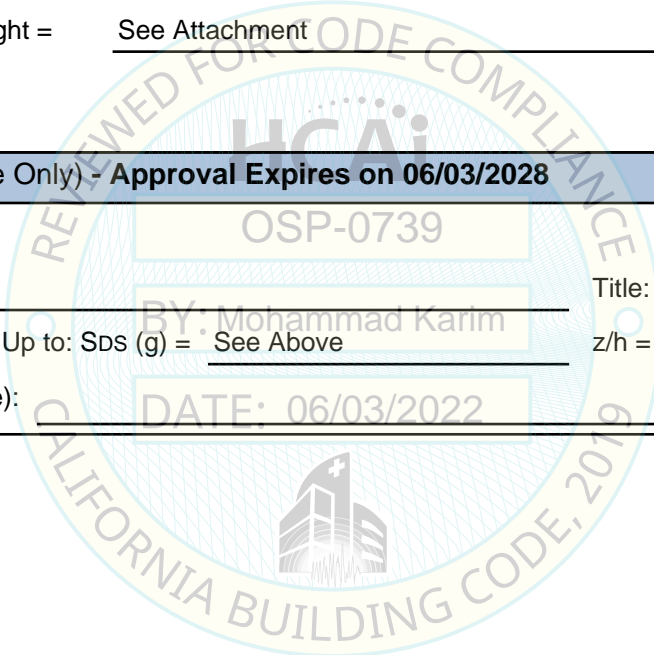
HCAI Approval (For Office Use Only) - Approval Expires on 06/03/2028

Date: 6/3/2022

Name: Mohammad Karim Title: Supervisor, Health Facilities

Special Seismic Certification Valid Up to: SDS (g) = See Above z/h = See Above

Condition of Approval (if applicable): DATE: 06/03/2022

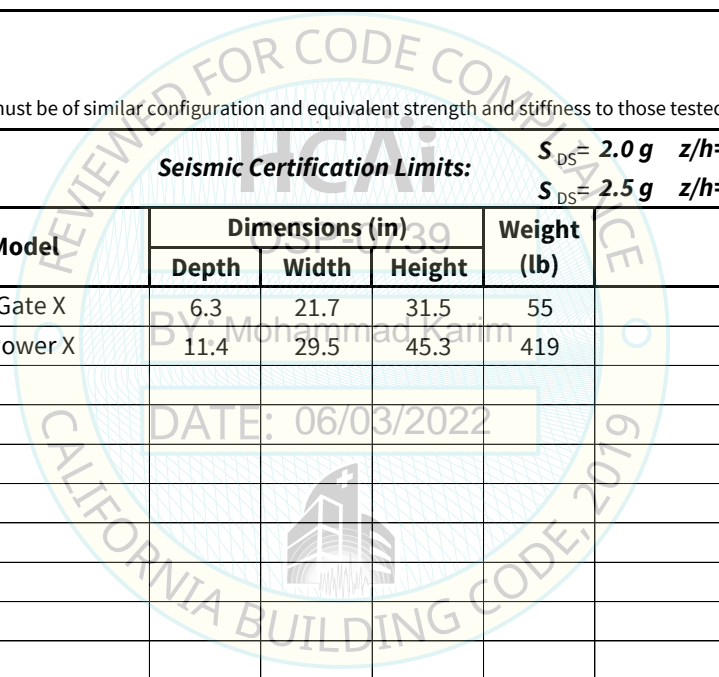


SPECIAL SEISMIC CERTIFICATION CERTIFIED COMPONENT MATRIX

2101227-CR-001-R2



Manufacturer: FranklinWH Technologies Co., Ltd.					TABLE 1		
Model Line: Franklin Home Power Solution							
Certified Product Construction Summary: Constructed with: SUS304 (aPower X frame), AL5052 (aPower X panel - aGate X frame), and PC+10%GF (aGate X panel)							
Certified Options Summary:							
Mounting Configuration: Wall mounted - rigid Note: Installed mounting configuration must be of similar configuration and equivalent strength and stiffness to those tested.							
Building Code: CBC 2019		Seismic Certification Limits:			$S_{DS} = 2.0 g$	$z/h = 1.0$	$I_p = 1.5$
					$S_{DS} = 2.5 g$	$z/h = 0.0$	
Model Line	Model	Dimensions (in)			Weight (lb)	Notes	UUT
		Depth	Width	Height			
Franklin Home Power Solution	aGate X	6.3	21.7	31.5	55		1
	aPower X	11.4	29.5	45.3	419		2



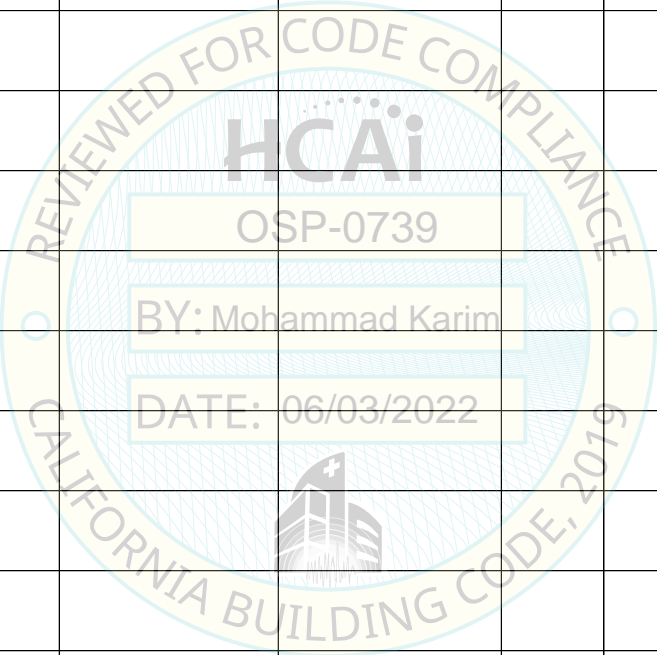
UNIT UNDER TEST (UUT) SUMMARY SHEET

2101227-CR-001-R2



Manufacturer: FranklinWH Technologies Co., Ltd.
Model Line: Franklin Home Power Solution

UUT	Unit Description	Report Number	Testing Lab	Year Tested	ISO 17025 Accredited?	S _{DS}	z/h	I _p
1	aGate X	No.B22X80258	China Telecommunication Technology Labs	2022	Yes	2.0 2.5	1.0 0.0	1.5
2	aPower X	No.B22X80258	China Telecommunication Technology Labs	2022	Yes	2.0 2.5	1.0 0.0	1.5



Notes:

UNIT UNDER TEST (UUT) SUMMARY SHEET



2101227-CR-001-R2

Manufacturer: FranklinWH Technologies Co., Ltd.	UUT 1
Model Line: Franklin Home Power Solution	
Model Number: aGate X Serial Number: N/A	

Product Construction Summary:
Frame: AL5052 and welded,
Panel: PC+10%GF and injection molded

Options/Subcomponent Summary:
 Control Module

<i>UUT Properties</i>						
Weight (lb)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
55	6.3	21.7	31.5	N/A	N/A	N/A

<i>UUT Highest Passed Seismic Run Information</i>									
Building Code	Test Criteria	S _{DS} (g)	z/h	I _P	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)	
CBC 2019	ICC-ES AC156	2.0	1.0	1.5	3.20	2.40	1.67	0.67	
		2.5	0.0						

Test Mounting Details:

UUT1 was wall mounted - rigid connected to the fixture using four (4) M6 bolts.
 Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test.
 Contents were included in testing per operating conditions.

UNIT UNDER TEST (UUT) SUMMARY SHEET



2101227-CR-001-R2

Manufacturer: FranklinWH Technologies Co., Ltd.	UUT 2
Model Line: Franklin Home Power Solution	
Model Number: aPower X Serial Number: N/A	

Product Construction Summary:
Frame: SUS304 with thickness 1.5mm and welded, **Mounting Bracket:** SUS304 with thickness 3.0mm,
Panel: AL5052 with thickness 2.0mm and welded

Options/Subcomponent Summary:
 Energy Storage System

<i>UUT Properties</i>						
Weight (lb)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
419	11.4	29.5	45.3	N/A	N/A	N/A

<i>UUT Highest Passed Seismic Run Information</i>									
Building Code	Test Criteria	S _{DS} (g)	z/h	I _p	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)	
CBC 2019	ICC-ES AC156	2.0 2.5	1.0 0.0	1.5	3.20	2.40	1.67	0.67	

Test Mounting Details:

UUT2 was wall mounted - rigid to a mounting bracket that was connected to the fixture using four (4) M6 bolts. Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test. Contents were included in testing per operating conditions.