APPLICATION FOR HCAI SPECIAL SEISMIC CERTIFICATION PREAPPROVAL (OSP)

OFFICE USE ONLY

APPLICATION #: OSP-0197

HCAI Special Seismic Certification Preapproval (OSP)

Type: ☐ New ☒ Renewal

Manufacturer Information

Manufacturer: APC by Schneider Electric

Manufacturer's Technical Representative: Kin Keat

Mailing Address: 800 Federal Street, Andover, MA 01810

Telephone: (978) 975-9461 Email: kin.keat@se.com

Product Information

Product Name: Smart-UPS On-Line

Product Model Number(s): Varies. See Attachment

Product Category: UPS and Batteries

Product Sub-Category: UPS

General Description: Smart-UPS On-Line units consist of UPS units, battery packs, and transformers contained in commercial and seismic racks.

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

REVIEWED FOR CODE COMPLIANCE HCAi OSP-0197 BY: Mohammad Karim DATE: 11/06/2026 CALIFORNIA BUILDING CODE, 2025

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: NATIONAL TECHNICAL SYSTEMS (NTS)

Contact Person: Clayton Forbes

Mailing Address: 1146 Massachusetts Avenue, Boxborough MA 01719

Telephone: (978) 266-1001 Email: clayton.forbes@nts.com

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Seismic Parameters

Certified Response Spectral Acceleration Factors:(F_p/W_p)

Horizontal	(A Flx-H), g=	2.97	(A Rig-H), g=	2.00
Vertical	(A Flx-V), g=	1.24	(A Rig-V), g=	0.50

S_{DS} (Design spectral response acceleration at short period, g) = 1.86

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

I_p (Importance factor) = 1.5

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

HCAI Approval (For Office Use Only) - **Approval Expires on 11/06/2032**

Date: 11/6/2026

Name: Mohammad Karim Title: Supervisor, Health Facilities

Condition of Approval (if applicable):

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DATE: 11/06/2026
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SPECIAL SEISMIC CERTIFICATION CERTIFIED COMPONENTS

Pre No. CC262034-01-R0

Manufacturer: APC by Schneider Electric
Product Type: Uninterruptible Power Supply
Model Line: Smart-UPS On-Line

Seismic Parameters		Building Codes
S_{DS} = 1.86g for z/h=1,R_μ=1.3,H_f=3.5 S_{DS} = 1.86g for z/h=0,R_μ=1.0,H_f=1.0	I_p=1.5	CBC 2025

TABLE 1

Mounting Configuration: Base Mounted - Rigid

Construction Summary

NEMA 1 - 14 guage cold rolled carbon steel (ASTM A1008)

Options Summary

Commercial or seismic rack enclosure populated with subcomponents from Tables 2 or 3.

Model Line	Model	Max. Dimensions (in) D	W	H	Wt. (lb)	C.G. Ht. (in.)	Notes	UUT
APC NetShelter SX 42U Enclosure (Commercial)	AR3100SP1	41.4	23.6	78.4	400	28		Interp.
					|	|		Interp.
					88	28		4
					|	|		Interp.
					850	28.5		2
APC NetShelter VX Seismic 42U Enclosure (Seismic)	AR2145BLK	42.2	23.0	80.3	600	31.5		Interp.
					|	|		Interp.
					1300	31.5		1
					|	|		Interp.
					1650	37		3

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SPECIAL SEISMIC CERTIFICATION
CERTIFIED SUBCOMPONENTS

Manufacturer: APC by Schneider Electric
Product Type: Uninterruptible Power Supply
Model Line: Smart-UPS On-Line

Seismic Parameters		Building Codes
S_{DS} = 1.86g for z/h=1,R_μ=1.3,H_f=3.5 S_{DS} = 1.86g for z/h=0,R_μ=1.0,H_f=1.0	I_p=1.5	CBC 2025

TABLE 2

Table Description: Electrical Components

Component (Manufacturer)	Model	Dimensions (in)			Wt. (lb)	Notes	UUT
		D	W	H			
UPS (APC)	SRT1000RMXLA	20	17	3.3	48.5	SRT 1kVA, RM, 120V, Smart Slot	Interp.
	SRT1000RMXLA-NC	20	17	3.3	48.5	SRT 1kVA, RM, 120V, Network Card	Interp.
	SRT1000RMXLA-NCUS	20	17	3.3	48.5	SRT 1kVA, RM, 120V, Network Card, TAA	Interp.
	SRT1500RMXLA	20	17	3.3	48.5	SRT 1.5kVA, RM, 120V, Smart Slot	Interp.
	SRT1500RMXLA-NC	20	17	3.3	48.5	SRT 1.5kVA, RM, 120V, Network Card	Interp.
	SRT1500RMXLA-NCUS	20	17	3.3	48.5	SRT 1.5kVA, RM, 120V, Network Card, TAA	Interp.
	SURTA1500RMXL2U	22	17	3.4	60.6	RT 1500VA Rack Tower 120V	3
	SRT2200RMXLA	23	17	3.3	55	SRT 2200VA RM 120V	Interp.
	SRT2200RMXLA-NC	23	17	3.3	58	SRT 2200VA RM 120V, Network Card	2
	SRT3000RMXLT	25	17	3.3	69	SRT 3000VA RM 208V	Interp.
	SRT3000RMXLA	25	17	3.3	69	SRT 3000VA RM 208V	Interp.
	SRT3000RMXLT-NC	25	17	3.3	69	SRT 3000VA RM 208V, Network Card	Interp.
	SRT3000RMXLA-NC	25	17	3.3	69	SRT 3000VA RM 120V, Network Card	1
	SRT3000RMLW-IEC	25	17	3.3	69	SRT 3000VA RM 208/230V IEC	Interp.
	SRT5KRMXLT	28.3	17	5.1	120	SRT 5000VA RM 208V	Interp.
	SRT5KRMXLT-IEC	28.3	17	5.1	120	SRT 5000VA RM 208V IEC	1,2
	SRT6KRMXLT	28.3	17	6.85	132	SRT 6000VA RM 208V	1,2
	SRT6KRMXLT-IEC	28.3	17	6.85	135	SRT 6000VA RM 208V IEC	Interp.
	SRT8KRMXLT	28.2	17	10.35	246	SRT 8000VA RM 208V	Interp.
	SRT8KRMXLT-IEC	28.2	17	10.35	246	SRT 8000VA RM 208V IEC	Interp.
	SRT10KRMXLT	28.2	17	10.35	246	SRT 10000VA RM 208V	1
	SRT10KRMXLT-IEC	28.2	17	10.35	246	SRT 10000VA RM 208V IEC	Interp.
	SURT14KRMXLJ	30.4	17	21	545	RT 14kVA RM 200V	Interp.
	SURT15KRMXLT	30.4	17	21	545	RT 15kVA RM 208V	Interp.
	SURT18KRMXLJ	30.4	17	21	545	RT 18kVA RM 200V	Interp.
	SURT20KRMXLT	30.4	17	21	545	RT 20kVA RM 208V	3
Battery Packs (APC)	SRT48RMBP	21.1	17	3.3	65.9	1kVA 1.5kVA RM Battery Pack	Interp.
	SURTA48RMXLBP2U	22	17	3.4	72.6	RT 48V RM Battery Pack	4
	SRT72RMBP	23.4	17	3.4	78	RT 72V RM Battery Pack	1
	SRT96RMBP	23.4	17	3.4	95	RT 96V RM Battery Pack	2
	SRT192RMBP	26.9	17	5.1	200	SRT 192V 5kVA & 6kVA Battery Pack	Interp.
	SRT192RMBP2	26	17	5.1	200	SRT 192V 8kVA & 10kVA Battery Pack	1,2
	SURT192RMXLBP3U	26	17	5.1	200	RT 192V RM Battery Pack	4
	SURT192RMXLBP2	29.1	17	10.4	400	RT 192V RM Battery Pack	3
Transformer (APC)	AP9626	24	17	3.5	95.2	Step-Down Transformer RM 2U 208V IN 120V OUT; w/5-20 Receptacle	4

HCAI OSP-0197 ACCEPTED FOR CODE ON LIANG CALIFORNIA BUILDING CODE, 2025 REVIEWED BY: Mohammad Karim UPDATE: 11/06/2026

SPECIAL SEISMIC CERTIFICATION
CERTIFIED SUBCOMPONENTS

Manufacturer: APC by Schneider Electric
Product Type: Uninterruptible Power Supply
Model Line: Smart-UPS On-Line

Seismic Parameters		Building Codes
S_{DS} = 1.86g for z/h=1,R_μ=1.3,H_f=3.5 S_{DS} = 1.86g for z/h=0,R_μ=1.0,H_f=1.0	I_p=1.5	CBC 2025

TABLE 3

Table Description: Batteries

Component	Manufacturer	Manufacturer Model #	APC Model #	Dimensions (in)			Wt. (lb)	UUT
				D	W	H		
Batteries-APC Module #1 (OM-816336)	Leoch	LP-12-5-4	910-6003	2.76	3.54	4.02	4.4	1,2
	CSB Battery	HR1221WF2		2.76	3.54	4.02	4.4	1,2
	Kung Long Batteries Industrial Co., LTD	WPS-12		2.76	3.54	4.02	4.4	1,2
	E-Power Trading Limited (B&B Battery Co.)	BPS-12		2.76	3.54	4.02	4.4	1,2
Batteries-APC Module #2 (911-9012A)	Leoch	LP-12-5-4	910-6003	2.76	3.54	4.02	4.4	1,2
	CSB Battery	HR1221WF2		2.76	3.54	4.02	4.4	1,2
	Kung Long Batteries Industrial Co., LTD	WPS-12		2.76	3.54	4.02	4.4	1,2
	E-Power Trading Limited (B&B Battery Co.)	BPS-12		2.76	3.54	4.02	4.4	1,2
Batteries-APC Module #3 (911-1086A)	Leoch	LP-12-5-4	910-6003	2.76	3.54	4.02	4.4	1,2
	CSB Battery	HR1221WF2		2.76	3.54	4.02	4.4	1,2
	Kung Long Batteries Industrial Co., LTD	WPS-12		2.76	3.54	4.02	4.4	1,2
	E-Power Trading Limited (B&B Battery Co.)	BPS-12		2.76	3.54	4.02	4.4	1,2
Batteries-APC Module #4 (OM-1863B)	CSB Battery	HR1221WF2	910-6003	2.76	3.54	4.02	4.4	1,2
	Kung Long Batteries Industrial Co., LTD	WPS-12		2.76	3.54	4.02	4.4	1,2
	E-Power Trading Limited (B&B Battery Co.)	BPS-12		2.76	3.54	4.02	4.4	1,2
Batteries-APC Module #5 (911-0041A)	Shenzhen Center Power Tech Co. LTD (Vision)	CP1290	910-1209	5.94	2.55	3.7	5.7	3,4
	Exide Industries	EP1234WFR		5.94	2.55	3.7	5.7	4

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DATE: 11/06/2026
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SPECIAL SEISMIC CERTIFICATION TESTING SUMMARY

UUT	Model	Test Report	Test Date	Test Laboratory	S_{DS}	z/h	R_μ	H_f	I_p
1	AR2145BLK	TR-PR040246-16	Dec-17, 2015	NTS Boxborough	1.86 1.86	1 0	1.3 1.0	3.5 1.0	1.5
2	AR3100SP1	TR-PR040246-16	Dec-17, 2015	NTS Boxborough	1.86 1.86	1 0	1.3 1.0	3.5 1.0	1.5
3	AR2145BLK	TR63570-12I-RCK2B&6 (Rack 6)	Feb-25, 2011	NTS Acton	1.86 1.86	1 0	1.3 1.0	3.5 1.0	1.5
4	AR3100SP1	TR63570-12I-RCK7 (Rack 7)	Apr-5, 2011	NTS Acton	1.86 1.86	1 0	1.3 1.0	3.5 1.0	1.5

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Notes:

SPECIAL SEISMIC CERTIFICATION UUT SUMMARY

UUT 1

Test Report# TR-PR040246-16

Manufacturer: APC by Schneider Electric
Model Line: Smart-UPS On-Line
Model Number: AR2145BLK
Serial Number: N/A

Highest Passed Test Level

S_{DS} (g)	z/h	R_μ	H_f	I_p	A_{flx-h} (g)	A_{rig-h} (g)	A_{flx-v} (g)	A_{rig-v} (g)
1.86	1.0	1.3	3.5	1.5	2.97	2.00	1.24	0.50
1.86	0.0	1.0	1.0					

Dimensions/Weights

Depth (in)	Width (in)	Height (in)	Weight (lbs.)
42.2	23.0	80.3	1300

Lowest Natural Frequency (Hz)

Front-Back	Side-Side	Vertical
9.0	5.0	>33.3

Building Codes

CBC 2025

Test Criteria

ICC-ES AC156-24

Construction/Option Summary

NEMA 1 - 14 gauge cold rolled carbon steel (ASTM A1008)

UUT Mounting Details:



Floor mounted using (8) M12-1.75x30mm 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 (Manufacturer)	Model #	Wt. (lbs.)
4-Post Sesmic Rack (APC)	AR2145BLK	437.3
SRT 3000VA RM 120V w/Network Card (APC)	SRT3000RMXLA-NC	69
SRT 5000VA RM 208V IEC (APC)	SRT5KRMXLT-IEC	120
SRT 6000VA RM 208V (APC)	SRT6KRMXLT	132
SRT 10000VA RM 208V (APC)	SRT10KRMXLT	246
RT 72V RM Battery Pack (APC)	SRT72RMBP	78
SRT 192V 8kVA and 10kVA Battery Pack (APC)	SRT192RMBP2	200
Battery Module (Leoch)	LP12-5-4	4.4
Battery Module (CSB)	HR1221WF2	4.4
Battery Module (Kung Long Batteries Industrial Co., LTD)	WP5-12	4.4
Battery Module (B&B)	BP5-12	4.4

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SPECIAL SEISMIC CERTIFICATION
UUT SUMMARY

UUT 1 Test Report# TR-PR040246-16

Test Configuration

Center of Gravity Height: 32"

42	**SRT3000RMXLA-NC** (69 lb) *uses module #2 - qty 1*	42
41		41
40	**SRT72RMBP** (78 lb) *uses module #3 - qty 2*	40
39		39
38		38
37		37
36		36
35		35
34		34
33		33
32		32
31	AR8122BLK Shelf	31
30		30
29		29
28		28
27		27
26		26
25		25
24		24
23		23
22		22
21		21
20		20
19	**SRT5KRMXLT-IEC (120 lb)** *uses module #1 - qty 2*	19
18		18
17		17
16	**SRT6KRMXLT** (4U) (132 lb) *uses module #1 - qty 2*	16
15		15
14		14
13		13
12	**SRT10KRMXLT** (246 lb) *uses module #1 - qty 4*	12
11		11
10		10
9		9
8		8
7		7
6	**SRT192RMBP2** (200 lb) *uses module #1 - qty 4*	6
5		5
4		4
3		3
2		2
1		1

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SPECIAL SEISMIC CERTIFICATION UUT SUMMARY

UUT 2 Test Report# TR-PR040246-16

Manufacturer: APC by Schneider Electric
Model Line: Smart-UPS On-Line
Model Number: AR3100SP1
Serial Number: N/A

Highest Passed Test Level

S_{DS} (g)	z/h	R_μ	H_f	I_p	A_{flx-h} (g)	A_{rig-h} (g)	A_{flx-v} (g)	A_{rig-v} (g)
1.86	1.0	1.3	3.5	1.5	2.97	2.00	1.24	0.50
1.86	0.0	1.0	1.0					

Dimensions/Weights

Depth (in)	Width (in)	Height (in)	Weight (lbs.)
41.4	23.6	78.4	850

Lowest Natural Frequency (Hz)

Front-Back	Side-Side	Vertical
4.5	2.7	>33.3

Building Codes

CBC 2025

Test Criteria

ICC-ES AC156-24

Construction/Option Summary

NEMA 1 - 14 gauge cold rolled carbon steel (ASTM A1008)

UUT Mounting Details:



Floor mounted using (8) M12-1.75x30mm 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 (Manufacturer)	Model #	Wt. (lbs.)
4-Post Sesmic Rack (APC)	AR3100SP1	275.8
SRT 2200VA RM 120V w/Network Card (APC)	SRT2200RMXLA-NC	58
SRT 5000VA RM 208V IEC (APC)	SRT5KRMXLT-IEC	120
SRT 6000VA RM 208V (APC)	SRT6KRMXLT	132
RT 96V RM Battery Pack (APC)	SRT96RMBP	95
SRT 192V 8kVA and 10kVA Battery Pack (APC)	SRT192RMBP2	200
Battery Module (Leoch)	LP12-5-4	4.4
Battery Module (CSB)	HR1221WF2	4.4
Battery Module (Kung Long Batteries Industrial Co., LTD)	WP5-12	4.4
Battery Module (B&B)	BP5-12	4.4
Shelf (APC)	AR8122BLK	-

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SPECIAL SEISMIC CERTIFICATION UUT SUMMARY

UUT 2 Test Report# TR-PR040246-16

Test Configuration

Center of Gravity Height: 28.5"

42	**SRT2200RMXLA-NC** (58 lb)	42
41	*uses module #3 - qty 1*	41
40	**SRT96RMBP** (95 lb)	40
39	*uses module #2 - qty 2*	39
38		38
37		37
36		36
35		35
34		34
33		33
32		32
31		31
30		30
29		29
28		28
27		27
26		26
25		25
24	AR8122BLK Shelf	24
23		23
22		22
21		21
20		20
19		19
18		18
17		17
16		16
15		15
14		14
13		13
12		12
11		11
10	**SRT5KRMXLT-IEC** (120 lb)	10
9	*uses module #1 - qty 2*	9
8		8
7	**SRT6KRMXLT** (4U) (132 lb)	7
6	*uses module #1 - qty 2*	6
5		5
4		4
3	**SRT192RMBP2** (200 lb)	3
2	*uses module #1 - qty 4*	2
1		1

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SPECIAL SEISMIC CERTIFICATION UUT SUMMARY

UUT 3

Test Report# TR63570-12I-RCK2B&6

Manufacturer: APC by Schneider Electric
Model Line: Smart-UPS On-Line
Model Number: AR2145BLK
Serial Number: N/A

Highest Passed Test Level

S_{DS} (g)	z/h	R_μ	H_f	I_p	A_{flx-h} (g)	A_{rig-h} (g)	A_{flx-v} (g)	A_{rig-v} (g)
1.86	1.0	1.3	3.5	1.5	2.97	2.00	1.24	0.50
1.86	0.0	1.0	1.0					

Dimensions/Weights

Depth (in)	Width (in)	Height (in)	Weight (lbs.)
42.2	23.0	80.3	1650

Lowest Natural Frequency (Hz)

Front-Back	Side-Side	Vertical
6.9	4.1	>33.3

Building Codes

CBC 2025

Test Criteria

ICC-ES AC156-24

Construction/Option Summary

NEMA 1 - 14 gauge cold rolled carbon steel (ASTM A1008)

UUT Mounting Details:



Floor mounted using (8) M12-8.8x30mm 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 (Manufacturer)	Model #	Wt. (lbs.)
4-Post Sesmic Rack (APC)	AR2145BLK	437.3
RT 1500VA Rack Tower 120V (APC)	SURTA1500RMXL2U	60.6
RT 3000VA Rack Tower 208V (APC)	SURTD3000RMXLT 3U	120
RT 8000VA Rack Tower 208V (APC)	SURT8000RMXLT6 U	244
RT 20kVA RM 208V (APC)	SURT20KRMXLT	545
RT 192V RM Battery Pack (APC)	SURT192RMXLBP2	400
Symmetra LX 4kVA (APC)	SYA4K8RMP	295
Battery Module (Vision)	CP1290	5.7
Battery Module (CSB)	HR1221WF2	4.4
Battery Module (Kung Long Batteries Industrial Co., LTD)	WP5-12	4.4
Battery Module (B&B)	BP5-12	4.4
Battery Module (CSB)	HR1234WF2	4.4
Battery Module (Kung Long Batteries Industrial Co., LTD)	WP1234W	4.4

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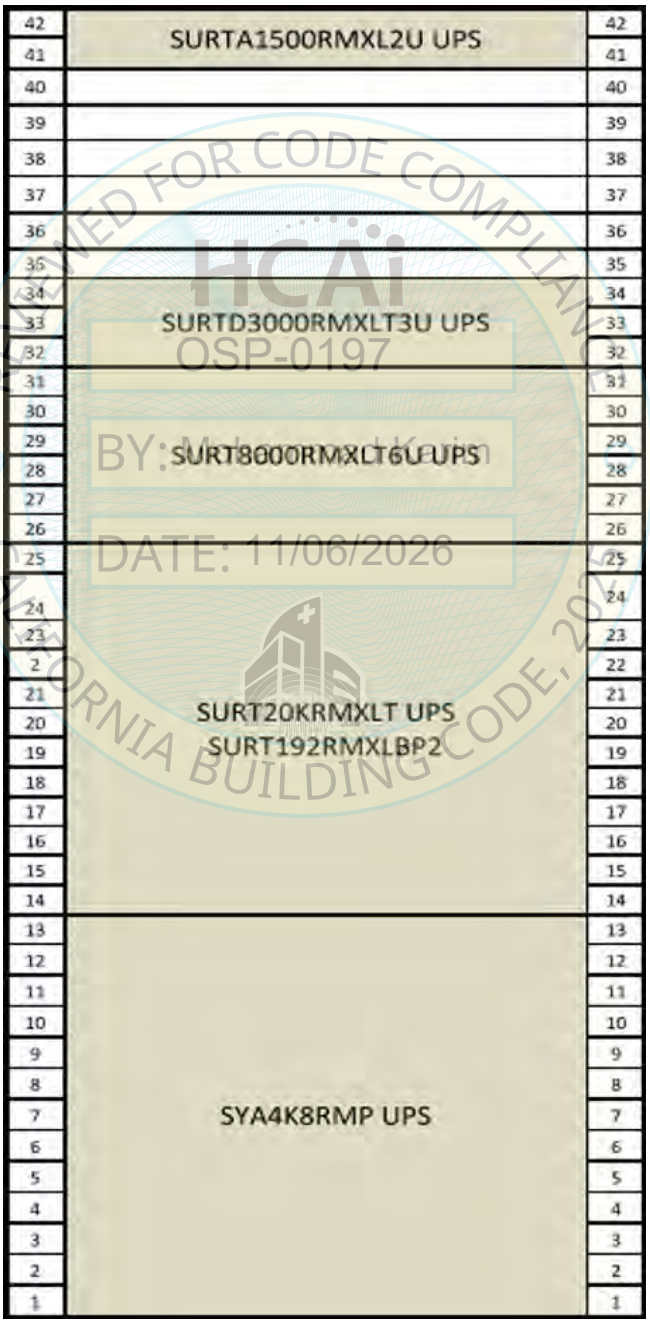
SPECIAL SEISMIC CERTIFICATION UUT SUMMARY

UUT 3

Test Report# TR63570-12I-RCK2B&6

Test Configuration

Center of Gravity Height: 37"



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SPECIAL SEISMIC CERTIFICATION UUT SUMMARY

UUT 4 Test Report# TR63570-12I-RCK7

Manufacturer: APC by Schneider Electric
Model Line: Smart-UPS On-Line
Model Number: AR3100SP1
Serial Number: N/A

Highest Passed Test Level

S_{DS} (g)	z/h	R_μ	H_f	I_p	A_{flx-h} (g)	A_{rig-h} (g)	A_{flx-v} (g)	A_{rig-v} (g)
1.86	1.0	1.3	3.5	1.5	2.97	2.00	1.24	0.50
1.86	0.0	1.0	1.0					

Dimensions/Weights

Depth (in)	Width (in)	Height (in)	Weight (lbs.)
41.4	23.6	78.4	800

Lowest Natural Frequency (Hz)

Front-Back	Side-Side	Vertical
6.0	2.8	>33.3

Building Codes

CBC 2025

Test Criteria

ICC-ES AC156-24

Construction/Option Summary

NEMA 1 - 14 gauge cold rolled carbon steel (ASTM A1008)

UUT Mounting Details:



Floor mounted using (4) M12-8.8x30mm 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 (Manufacturer)	Model #	Wt. (lbs.)
4-Post Sesmic Rack (APC)	AR3100SP1	275.8
RT 2200VA RM 120V (APC)	SURTA2200RMXL2U	61
RT 48V RM Battery Pack (APC)	SURTA48RMXLBP2U	72.6
Step-Down Transformer RM 2U 208V IN 120V OUT; w/5-20 Receptacles (APC)	AP9626	95.2
RT 6000VA Rack Tower 208V (APC)	SURT6000RMXLT3U	120
RT 192V RM Battery Pack (APC)	SURT192RMXLBP3U	200
Battery Module (Exide Industries)	EP1234WFR	5.7
Battery Module (Vision)	CP1290	5.7
Battery Module (CSB)	HR1221WF2	4.4

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SPECIAL SEISMIC CERTIFICATION UUT SUMMARY

UUT 4 Test Report# TR63570-12I-RCK7

Test Configuration

Center of Gravity Height: 28"

42	SURTA2200RMXL2U UPS	42
41		41
40	SURTA48RMXLBP2U UPS Battery Pack	40
39		39
38		38
37		37
36		36
35		35
34		34
33		33
32		32
31		31
30		30
29		29
28		28
27		27
26		26
25		25
24		24
23		23
22		22
21		21
20		20
19		19
18		18
17		17
16		16
15		15
14		14
13		13
12		12
11		11
10		10
9		9
8	AP9626 Step Down Transformer	8
7		7
6	SURT6000RMXLT3U UPS	6
5		5
4		4
3	SURT192RMXLBP3U UPS Battery Pack	3
2		2
1		1

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