



APPLICATION FOR PREAPPROVAL SPECIAL SEISMIC CERTIFICATION OF EQUIPMENT AND COMPONENTS

For Office Use Only

APPLICATION NO.
OSP – 0197-10

Check whether application is: NEW RENEWAL

1.0 APC by Schneider Electric Brian McKenna
Manufacturer *Manufacturer's Technical Representative*

85 Rangeway Road., North Billerica, MA 01862
Mailing Address

(978) 670-2440 x17263 Brian.mckenna@schneider-electric.com
Telephone *E-mail Address*

2.0 Smart-UPS On-Line Uninterruptible Power Supply (UPS)
Product Name *Product Type*

Smart-UPS RT UPS units and accessories in commercial and seismic racks. See "Product Range Summary" for detailed list of product models.

Product Model No. (List all unique product identification numbers and/or serial numbers)

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

3.0 APC by Schneider Electric Brian McKenna
Applicant Company Name *Contact Person*

85 Rangeway Road., North Billerica, MA 01862
Mailing Address

(978) 670-2440 x17263 Brian.mckenna@schneider-electric.com
Telephone *E-mail Address*

I hereby agree to reimburse the Office of Statewide Health Planning and Development for the actual costs incurred by the department for review.

7/15/2011

Signature of Applicant

Date

Senior Mechanical Engineer

APC by Schneider Electric

Title

Company Name

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Registered Design Professional Preparing the Report

4.0

Forell-Elsesser Engineers, Inc.

Company Name

Carlos Sempere

Contact Name

CE-75648

California License Number

160 Pine St., 6th Flr., San Francisco, CA 94111

Mailing Address

415-837-0700

Telephone

c.sempere@forell.com

E-mail Address

California Licensed Structural Engineer Review and Acceptance of the Report

5.0

Forell-Elsesser Engineers, Inc.

Company Name

Marco Scanu, SE

Contact Name

S4454

California License Number

160 Pine St., 6th Flr., San Francisco, CA 94111

Mailing Address

415-837-0700

Telephone

m.scanu@forell.com

E-mail Address

Anchorage Pre-Approval

6.0

- Anchorage is pre-approved under OPA- (Separate application for anchorage pre-approval is required)
Anchorage is not Pre-approved

Certification Method

7.0

- Testing in accordance with: ICC-ES AC-156
Analysis
Experience data
Combination of Testing, Analysis, and/or Experience Data (Please Specify):

Testing Laboratory (if applicable)

8.0

National Technical Systems, Inc.

Company Name

Steve Eisenberg

Contact Name

533 Main Street, Acton, MA 01720

Mailing Address

(978) 263-2933

Telephone

Steve.eisenberg@nts.com

E-mail

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Approval Parameters

9.0 Design in accordance with ASCE 7-05 Chapter 13: Yes No

Design Basis of Equipment or Components (F_p/W_p) = 1.42g

S_{DS} (Spectral response acceleration at short period) = 1.89g

a_p (In-structure equipment or component amplification factor) = 2.5

R_p (Equipment or component response modification factor) = 6.0

I_p (Importance factor) = 1.5

z/h (Height factor ratio) = 1.0

Equipment or Component fundamental period(s) = See attachment, "Resonant Frequency Summary"

Building period limits (if any) = n/a

Overall dimensions and weight (or range thereof) = See attachment, "Product Range Summary"

Equipment or Components @ grade designed in accordance with ASCE 7-05 Chapter 15: Yes No

Design Basis of Equipment or Components (V/W) =

S_{DS} (Spectral response acceleration at short period) =

S_1 (Spectral response acceleration at 1 second period) =

R (Response modification coefficient) = 1.0

Ω_0 (System overstrength factor) = 1.0

C_d (Deflection amplification factor) = 1.0

I_p (Importance factor) = 1.5

Height to Center of Gravity above base =

Equipment or Component fundamental period(s) = Sec

Overall dimensions and weight (or range thereof) =

Tank(s) designed in accordance with ASME BPVC, 2007: Yes No

10.0 List of attachments supporting the special seismic certification of equipment or components:

- Test Report
- Drawings
- Manufacturer's Catalog
- Calculations
- Other (Please Specify): SE Acceptance Letter, Product Range Summary, CBC 2010 & AC156 Requirements Checklist

11.0 OSHPD Approval (For Office Use Only)

M. R. Karim

7/15/2011

December 31, 2016

Signature & Date

Approval Expiration Date

M. R. Karim, SHFR

S_{DS} (g) = 1.89

z/h = 1.0

Name & Title

Special Seismic Certification Valid Up to

Condition of Approval (if any):

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**APC - Smart-UPS On-Line
Product Range Summary**

APC Racks	Width	Depth	Height	Weight	Construction Material	Component No.	Testing Status
APC NetShelter SX 42U Enclosure (Commercial)	23.6 in	43 in	78.4 in	275.8 lbs	14 GA CRS, NEMA 1	AR3100SP1	Tested
APC NetShelter VX Seismic 42U Enclosure (Seismic)	23 in	42.2 in	81.5 in	437.3 lbs	14 GA CRS, NEMA 1	AR2145BLK	Tested
APC NetShelter 2 Post Rack 45U (Commercial)	20.2 in	14.8 in	84.1 in	26.1 lbs	0.125" AL	AR201	Tested

Notes: 1. CRS=Cold Rolled Steel
2. AL=Aluminum

APC Racks are preapproved to be filled with UPS and Accessories listed on the next page. Below are the maximum and minimum configurations tested. Intermediate weight configurations with center of gravity height below the tested center of gravity heights listed are preapproved by interpolation.

APC Racks	Minimum		Maximum	
	Weight	CG height	Weight	CG height
APC NetShelter SX 42U Enclosure (Commercial)	700 lbs	28 in	800 lbs	28 in
APC NetShelter VX Seismic 42U Enclosure (Seismic)	1200 lbs	32 in	1650 lbs	37 in
APC NetShelter 2 Post Rack 45U (Commercial)	375 lbs	15 in	450 lbs	14 in

**APC - Smart-UPS On-Line
Product Range Summary**

APC Products Preapproved for use in APC Racks

APC UPS	Width	Depth	Height	Weight	Construction Material	Component No.	Testing Status
APC Smart-UPS RT 1500VA Rack Tower 120V ¹	17 in	22 in	3.4 in	60.6 lbs	1.2 mm CRS	SURTA1500RMXL2U	Tested
APC Smart-UPS RT 2200VA RM 120V ¹	17 in	22 in	3.4 in	60.6 lbs	1.2 mm CRS	SURTA2200RMXL2U	Tested
APC Smart-UPS RT 3000VA Rack Tower 208V ²	17 in	26 in	5.2 in	120.3 lbs	1.2 mm CRS	SURTD3000RMXL3U	Tested
APC Smart-UPS RT 5000VA Rack Tower 208V ²	17 in	26 in	5.2 in	120.3 lbs	1.2 mm CRS	SURTD5000RMXL3U	Interpolated
APC Smart-UPS RT 6000VA Rack Tower 208V ²	17 in	26 in	5.2 in	120.3 lbs	1.2 mm CRS	SURT6000RMXL3U	Tested
APC Smart-UPS RT 3000VA RM 230V ²	17 in	26 in	5.2 in	120.3 lbs	1.2 mm CRS	SURTD3000RMXLI	Interpolated
APC Smart-UPS RT 3000VA Rack Tower 120V ²	17 in	26 in	5.2 in	120.3 lbs	1.2 mm CRS	SURTA3000RMXL3U	Interpolated
APC Smart-UPS RT 5000VA RM 230V ²	17 in	26 in	5.2 in	120.3 lbs	1.2 mm CRS	SURTD5000RMXLI	Interpolated
APC Smart-UPS RT 8000VA Rack Tower 208V ²	17 in	29 in	10.4 in	244.5 lbs	1.5 mm CRS	SURT8000RMXL6U	Tested
APC Smart-UPS RT 10,000VA Rack Tower 208V ²	17 in	29 in	10.4 in	244.5 lbs	1.5 mm CRS	SURT10000RMXL6U	Tested
APC Smart-UPS RT 20kVA RM 208V ²	17 in	30.4 in	21 in	545.0 lbs	1.5 mm CRS	SURT20KRMXL	Tested
APC Smart-UPS RT 15kVA RM 208V ²	17 in	30.4 in	21 in	545.0 lbs	1.5 mm CRS	SURT15KRMXL	Interpolated
APC Smart-UPS RT 14kVA RM 208V ²	17 in	30.4 in	21 in	545.0 lbs	1.5 mm CRS	SURT14KRMXLJ	Interpolated
APC Smart-UPS RT 18kVA RM 208V ²	17 in	30.4 in	21 in	545.0 lbs	1.5 mm CRS	SURT18KRMXLJ	Interpolated
APC Accessories							
APC Smart-UPS RT 48V RM Battery Pack ¹	17 in	22.0 in	3.4 in	72.6 lbs	1.2 mm CRS	SURTA48RMXLB2U	Tested
APC Smart-UPS RT 192V RM Battery Pack ²	17 in	26.0 in	5.1 in	200.4 lbs	1.2 mm CRS	SURT192RMXLB3U	Tested
APC Step-Down Transformer RM 2U 208V IN 120V OUT; w/5-20 Receptacles	17 in	24.0 in	3.5 in	95.2 lbs	16 ga CRS	AP9626	Tested

- Notes: 1. APC UPS Units and Accessories contain 4-Battery Modules as listed in Internal Components List
 2. APC UPS Units and Accessories contain 8-Battery Modules as listed in Internal Components List

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**APC - Smart-UPS On-Line
Product Range Summary**

Internal Components of APC Products

4 Battery Module (APC No. 911-0041A)							
Manufacturer	Width	Depth	Height	Weight	Component No.	Testing Status	
Battery (APC No. 910-1209)							
Shenzhen Center Power Tech Co. LTD (Vision)	2.55 in	5.94 in	3.70 in	5.7 lb	CP1290	Tested	
Exide Industries	2.55 in	5.94 in	3.70 in	5.7 lb	EP1234WFR	Tested	
8 Battery Module (APC No. OM-1863B)							
Manufacturer	Width	Depth	Height	Weight	Component No.	Testing Status	
Battery (APC No. 910-6003)							
CSB Battery	3.54 in	2.76 in	4.02 in	4.4 lb	HR1221WF2	Tested	
Kung Long Batteries Industrial Co., LTD	3.54 in	2.76 in	4.02 in	4.4 lb	WP5-12	Tested	
E-Power Trading Limited (B&B Battery Co.)	3.54 in	2.76 in	4.02 in	4.4 lb	BP5-12	Tested	

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 APC - Smart UPS On-line
 Resonant Frequency Summary

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**APC - Smart UPS On-line
 Resonant Frequency Summary**

Direction	<u>Rack 1</u>		<u>Rack 6</u>	
	Frequency	Period	Frequency	Period
Front-Back	9.0 Hz	0.11 sec	6.92 Hz	0.14 sec
Side-Side	5.15 Hz	0.19 sec	4.09 Hz	0.24 sec
Vertical	N/A	N/A	N/A	N/A

Direction	<u>Rack 4</u>		<u>Rack 5</u>	
	Frequency	Period	Frequency	Period
Front-Back	6.0 Hz	0.17 sec	5.1 Hz	0.20 sec
Side-Side	14.15 Hz	0.07 sec	4.9 Hz	0.20 sec
Vertical	21.1 Hz	0.05 sec	24.6 Hz	0.04 sec

Direction	<u>Rack 7</u>		<u>Rack 8</u>	
	Frequency	Period	Frequency	Period
Front-Back	6.0 Hz	0.17 sec	4.6 Hz	0.22 sec
Side-Side	2.8 Hz	0.36 sec	2.1 Hz	0.47 sec
Vertical	N/A	N/A	N/A	N/A

FORELL/ELSESSER ENGINEERS, INC.
 Structural Engineers
 160 Pine St., 6th Floor
 San Francisco, CA 94111

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Test Summary

Tested Unit #1 (Rack 1)

Smart-UPS On-Line in 4-Post Seismic Rack Enclosure (AR2145BLK)
 14 ga Cold Rolled Steel, NEMA 1
 23.04"W x 42.2"D x 80.25"H, 1200 lbs, Center of Gravity Height = 32"
 Floor mounted using (8) M12 8.8x30 bolts.

Test configuration is shown below:

42		42
41	SURTA2200RMXL2U UPS	41
40		40
39	SURTA48RMXLBP2U UPS Battery Pack	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	AR8122BLK Shelf	24
23		23
22		22
21		21
20		20
19		19
18		18
17	AP9626 Step Down Transformer	17
16		16
15		15
14	SURT6000RMXL3U UPS	14
13		13
12		12
11		11
10	SURT10000RMXL6U UPS	10
9		9
8		8
7		7
6		6
5	SURT192RMXLBP3U UPS Battery Pack	5
4		4
3		3
2		2
1		1



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 APC – Smart-UPS On-Line

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Tested Unit #1 (Rack 1)

Smart-UPS On-Line in 4-Post Seismic Rack Enclosure (AR2145BLK)

14 ga Cold Rolled Steel, NEMA 1

23.04"W x 42.2"D x 80.25"H, 1200 lbs, Center of Gravity Height = 32"

Floor mounted using (8) M12 8.8x30 bolts.

APC Products in Test Configuration:

Item#	APC Part #	Description
1	SURTA2200RMXL2U	APC Smart-UPS RT 2200VA RM 120V
2	SURTA48RMXLBP2U	APC Smart-UPS RT 48V RM Battery Pack
3	AP9626	APC Step-Down Transformer RM 2U 208V IN 120V OUT; w/5-20 Receptacles
4	SURT6000RMXL3U	APC Smart-UPS RT 6000VA Rack Tower 208V
5	SURT10000RMXL6U	APC Smart-UPS RT 10,000VA Rack Tower 208V
6	SURT192RMXLBP3U	APC Smart-UPS RT 192V RM Battery Pack
7	AR8122BLK	Shelf

Internal Components of APC Products:

Item #	Battery Module Part #	Description	Battery Manufacturer	Manufacture Part #
1	911-0041A	4-Battery Module	Exide Industries	EP1234WFR
2	911-0041A	4-Battery Module	Shenzhen Center Power Tech Co. LTD (Vision)	CP1290
3	N/A	N/A	N/A	N/A
4	OM-1863B	8-Battery Module	CSB Battery	HR1221WF2
5	OM-1863B	8-Battery Module	CSB Battery	HR1221WF2
6	OM-1863B	8-Battery Module	CSB Battery	HR1221WF2
7	N/A	N/A	N/A	N/A

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Tested Unit #2 (Rack 6)

Smart-UPS On-Line in 4-Post Seismic Rack Enclosure (AR2145BLK)
 14 ga Cold Rolled Steel, NEMA 1
 23.04"W x 42.2"D x 80.25"H, 1650 lbs, Center of Gravity Height = 37"
 Floor mounted using (8) M12 8.8x30 bolts.

Test configuration is shown below:

42		42
41	SURTA1500RMXL2U UPS	41
40		40
39		39
38		38
37		37
36		36
35		35
34		34
33	SURTD3000RMXL3U UPS	33
32		32
31		31
30		30
29	SURT8000RMXL6U UPS	29
28		28
27		27
26		26
25		25
24		24
23		23
22		22
21		21
20	SURT20KRMXL UPS	20
19		19
18		18
17		17
16		16
15		15
14		14
13		13
12		12
11		11
10		10
9		9
8		8
7		7
6		6
5		5
4		4
3		3
2		2
1		1



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 APC – Smart-UPS On-Line

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Tested Unit #2 (Rack 6)

Smart-UPS On-Line in 4-Post Seismic Rack Enclosure (AR2145BLK)
 14 ga Cold Rolled Steel, NEMA 1
 23.04"W x 42.2"D x 80.25"H, 1650 lbs, Center of Gravity Height = 37"
 Floor mounted using (8) M12 8.8x30 bolts.

APC Products in Test Configuration:

Item#	APC Part #	Description
1	SURTA1500RMXL2U	APC Smart-UPS RT 1500VA Rack Tower 120V
2	SURTD3000RMXL3U	APC Smart-UPS RT 3000VA Rack Tower 208V
3	SURT8000RMXL6U	APC Smart-UPS RT 8000VA Rack Tower 208V
4	SURT20KRMXL	APC Smart-UPS RT 20kVA RM 208V
5	SYA4K8RMP	APC Symmetra LX 4kVA

Internal Components of APC Products:

Item #	Battery Module Part #	Description	Battery Manufacturer	Manufacture Part #
1	911-0041A	4-Battery Module	Shenzhen Center Power Tech Co. LTD (Vision)	CP1290
2	OM-1863B	8-Battery Module	CSB Battery Kung Long Batteries Industrial Co., LTD E-Power Trading Limited (B&B Battery Co.)	HR1221WF2 WP5-12 BP5-12
3	OM-1863B	8-Battery Module	CSB Battery	HR1221WF2
4	OM-1863B	8-Battery Module	CSB Battery	HR1221WF2
5	SYBT5	10-Battery Module	CSB Battery Kung Long Batteries Industrial Co., LTD E-Power Trading Limited (B&B Battery Co.)	HR1234WF2 WP1234W HR1234W

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Tested Unit #3 (Rack 4)

Smart-UPS On-Line in 2-Post Commercial Rack Enclosure (AR201)

0.125" Aluminum

20.19"W x 26.5"D x 83.7"H, 450 lbs, Center of Gravity Height = 13"

Floor mounted using (4) M12 8.8x30 bolts.

Test configuration is shown below:

45		45
44		44
43		43
42		42
41		41
40		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	AP9626 Step Down Transformer	11
10		10
9	SURT6000RMXL3U UPS	9
8		8
7		7
6		6
5	SURT192RMXLBP3U UPS Battery Pack	5
4		4
3		3
2		2
1		1



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Tested Unit #3 (Rack 4)

Smart-UPS On-Line in 2-Post Commercial Rack Enclosure (AR201)

0.125" Aluminum

20.19"W x 26.5"D x 83.7"H, 450 lbs, Center of Gravity Height = 13"

Floor mounted using (4) M12 8.8x30 bolts.

APC Products in Test Configuration:

Item#	APC Part #	Description
1	AP9626	APC Step-Down Transformer RM 2U 208V IN 120V OUT; w/5-20 Receptacles
2	SURT6000RMLT3U	APC Smart-UPS RT 6000VA Rack Tower 208V
3	SURT192RMLBP3U	APC Smart-UPS RT 192V RM Battery Pack

Internal Components of APC Products:

Item #	Battery Module Part #	Description	Battery Manufacturer	Manufacture Part #
1	N/A	N/A	N/A	N/A
2	OM-1863B	8-Battery Module	CSB Battery	HR1221WF2
3	OM-1863B	8-Battery Module	CSB Battery	HR1221WF2

Tested Unit #4 (Rack 5)

Smart-UPS On-Line in 2-Post Commercial Rack Enclosure (AR201)

0.125" Aluminum

20.19"W x 26.5"D x 83.7"H, 375 lbs, Center of Gravity Height = 15"

Floor mounted using (4) M12 8.8x30 bolts.

Test configuration is shown below:

45		45
44		44
43		43
42		42
41		41
40		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	SURTA1500RML2U UPS	12
11		11
10	SURTA2200RML2U UPS	10
9		9
8	SURTA48RMLBP2U UPS Battery Pack	8
7		7
6		6
5	SURTD3000RMLT3U UPS	5
4		4
3		3
2		2
1		1



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Tested Unit #4 (Rack 5)

Smart-UPS On-Line in 2-Post Commercial Rack Enclosure (AR201)

0.125" Aluminum

20.19"W x 26.5"D x 83.7"H, 375 lbs, Center of Gravity Height = 15"

Floor mounted using (4) M12 8.8x30 bolts.

APC Products in Test Configuration:

Item#	APC Part #	Description
1	SURTA1500RMXL2U	APC Smart-UPS RT 1500VA Rack Tower 120V
2	SURTA2200RMXL2U	APC Smart-UPS RT 2200VA RM 120V
3	SURTA48RMXLBP2U	APC Smart-UPS RT 48V RM Battery Pack
4	SURTD3000RMXL3U	APC Smart-UPS RT 3000VA Rack Tower 208V

Internal Components of APC Products:

Item #	Battery Module Part #	Description	Battery Manufacturer	Manufacture Part #
1	911-0041A	4-Battery Module	Shenzhen Center Power Tech Co. LTD (Vision)	CP1290
2	911-0041A	4-Battery Module	Exide Industries	EP1234WFR
3	911-0041A	4-Battery Module	Shenzhen Center Power Tech Co. LTD (Vision)	CP1290
4	OM-1863B	8-Battery Module	CSB Battery Kung Long Batteries Industrial Co., LTD E-Power Trading Limited (B&B Battery Co.)	HR1221WF2 WP5-12 BP5-12

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Tested Unit #5 (Rack 7)

Smart-UPS On-Line in 4-Post Commercial Rack Enclosure (AR3100SP1)

14 ga Cold Rolled Steel, NEMA 1

23.63"W x 41.35"D x 78.4"H, 800 lbs, Center of Gravity Height = 28"

Floor mounted using (4) M12 8.8x30 bolts.

Test configuration is shown below:

42	SURTA2200RML2U UPS	42
41		41
40	SURTA48RMLBP2U 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		6
5	SURT6000RMLT3U UPS	5
4		4
3		3
2	SURT192RMLBP3U UPS Battery Pack	2
1		1



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Tested Unit #5 (Rack 7)

Smart-UPS On-Line in 4-Post Commercial Rack Enclosure (AR3100SP1)
 14 ga Cold Rolled Steel, NEMA 1
 23.63"W x 41.35"D x 78.4"H, 800 lbs, Center of Gravity Height = 28"
 Floor mounted using (4) M12 8.8x30 bolts.

APC Products in Test Configuration:

Item#	APC Part #	Description
1	SURTA2200RMLX2U	APC Smart-UPS RT 2200VA RM 120V
2	SURTA48RMLBP2U	APC Smart-UPS RT 48V RM Battery Pack
3	AP9626	APC Step-Down Transformer RM 2U 208V IN 120V OUT; w/5-20 Receptacles
4	SURT6000RMLT3U	APC Smart-UPS RT 6000VA Rack Tower 208V
5	SURT192RMLBP3U	APC Smart-UPS RT 192V RM Battery Pack

Internal Components of APC Products:

Item #	Battery Module Part #	Description	Battery Manufacturer	Manufacture Part #
1	911-0041A	4-Battery Module	Exide Industries	EP1234WFR
2	911-0041A	4-Battery Module	Shenzhen Center Power Tech Co. LTD (Vision)	CP1290
3	N/A	N/A	N/A	N/A
4	OM-1863B	8-Battery Module	CSB Battery	HR1221WF2
5	OM-1863B	8-Battery Module	CSB Battery	HR1221WF2

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Tested Unit #6 (Rack 8)

Smart-UPS On-Line in 4-Post Commercial Rack Enclosure (AR3100SP1)

14 ga Cold Rolled Steel, NEMA 1

23.63"W x 41.35"D x 78.4"H, 750 lbs, Center of Gravity Height = 28"

Floor mounted using (4) M12 8.8x30 bolts.

Test configuration is shown below:

42		42
41	SURTA1500RMXL2U UPS	41
40		40
39	SURTA48RMXLBP2U UPS Battery Pack	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		6
5	SURTD3000RMXL3U UPS	5
4		4
3		3
2	SURT192RMXLBP3U UPS Battery Pack	2
1		1



OSP APPLICATION
 APC – Smart-UPS On-Line

Date: 7/14/2011

Tested Unit #6 (Rack 8)

Smart-UPS On-Line in 4-Post Commercial Rack Enclosure (AR3100SP1)

14 ga Cold Rolled Steel, NEMA 1

23.63"W x 41.35"D x 78.4"H, 750 lbs, Center of Gravity Height = 28"

Floor mounted using (4) M12 8.8x30 bolts.

APC Products in Test Configuration:

Item#	APC Part #	Description
1	SURTA1500RML2U	APC Smart-UPS RT 1500VA Rack Tower 120V
2	SURTA48RMLBP2U	APC Smart-UPS RT 48V RM Battery Pack
3	AP9626	APC Step-Down Transformer RM 2U 208V IN 120V OUT; w/5-20 Receptacles
4	SURTD3000RMLT3U	APC Smart-UPS RT 3000VA Rack Tower 208V
5	SURT192RMLBP3U	APC Smart-UPS RT 192V RM Battery Pack

Internal Components of APC Products:

Item #	Battery Module Part #	Description	Battery Manufacturer	Manufacture Part #
1	911-0041A	4-Battery Module	Shenzhen Center Power Tech Co. LTD (Vision)	CP1290
2	911-0041A	4-Battery Module	Shenzhen Center Power Tech Co. LTD (Vision)	CP1290
3	N/A	N/A	N/A	N/A
4	OM-1863B	8-Battery Module	CSB Battery Kung Long Batteries Industrial Co., LTD E-Power Trading Limited (B&B Battery Co.)	HR1221WF2 WP5-12 BP5-12
5	OM-1863B	8-Battery Module	CSB Battery	HR1221WF2

19/19