



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-0405

HCAI Special Seismic Certification Preapproval (OSP)

Type: ☐ New ☒ Renewal

Manufacturer Information

Manufacturer: Eaton Corporation

Manufacturer's Technical Representative: Jack Morgan

Mailing Address: 3301 Spring Forest Road, Raleigh, NC 27616

Telephone: (919) 878-6030

Email: JackTMorgan@eaton.com

Product Information

Product Name: 93PM and 93PM-L

Product Model Number(s): Varies (see attachment)

Product Category: UPS and Batteries

Product Sub-Category: UPS

General Description: 20-400 kVA UPS

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



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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: AREVA TECHNICAL CENTER

Contact Person: Daniel Fort

Mailing Address: 1724 Mount Athos Road, Lynchburg VA 24504

Telephone: (434) 832-3816

Email: Daniel.Fort@AREVA.com

Company Name: CLARK TESTING LABORATORY, INC.

Contact Person: Devon Lohr

Mailing Address: 1801 Route 51, Jefferson Hills PA 15025

Telephone: (412) 387-1001

Email: dlohr@clarktesting.com

Company Name: NATIONAL TECHNICAL SYSTEMS (NTS)

Contact Person: Greg Mason

Mailing Address: 7800 Highway 20 West, Huntsville AL 35806

Telephone: (256) 837-4411

Email: greg.mason@element.com

Company Name: UNIVERSITY OF NEVADA, RENO (UNR)

Contact Person: Patrick LaPlace

Mailing Address: 1664 N. Virginia Street, Reno NV 89557

Telephone: (775) 784-6937

Email: laplace@unr.edu



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Seismic Parameters

Certified Response Spectral Acceleration Factors: (F_p/W_p)

Horizontal (A Flx-H), $g =$ 2.92 (A Rig-H), $g =$ 1.97

Vertical (A Flx-V), $g =$ 1.22 (A Rig-V), $g =$ 0.49

S_{DS} (Design spectral response acceleration at short period, g) = 1.83 (z/h = 1); 1.83 (z/h = 0)

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

R_u (Structure ductility reduction 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 11/03/2031

Date: 11/3/2025

Name: Mohammad Karim

Title: Supervisor, Health Facilities

Condition of Approval (if applicable): _____

OSP-0405

BY: Mohammad Karim

DATE: 11/3/2025

SPECIAL SEISMIC CERTIFICATION CERTIFIED COMPONENTS

Manufacturer: Eaton Corporation
Product Type: UPS
Model Line: 93PM and 93PM-L

Seismic Parameters

$S_{DS} = 1.83g$ for $R_{\mu}=1.3, H_f=3.5$
 $S_{DS} = 1.83g$ for $R_{\mu}=1.0, H_f=1.0$

Building Codes

$I_p=1.5$ CBC 2025

TABLE 1

Mounting Configuration: Base Mounted - Rigid

Construction Summary

20kVA - 400kVA
Carbon Steel Frame and Enclosure

Options Summary

See model line numbering pages for the significance of "X".
Dimensions are Max without seismic mounting kit. Weights are Max.

Model Line	Model	Max. Dimensions (in)			Wt. (lb)	Vertical C.G. (in.)	Notes	UUT
		D	W	H				
93PM UPS	9PA05D0220 A01R1	42	22	74	686	40		1
	9PXXXXXXXX XXXXX	...	...	...	...	...		Interp.
	9PA05D6029 L00R1	42	30	74	2178	35		4
	9PXXXXXXXX XXXXX	...	...	...	...	...		Interp.
	9PXXXXXXXX XXXXX	42	32	74	1368	39		Interp.
	9PXXXXXXXX XXXXX	...	...	...	...	...		Interp.
	9PXXXXXXXX XXXXX	42	37	74	1540	39		Interp.
	9PXXXXXXXX XXXXX	...	...	...	...	...		Interp.
	9PV20D0029 F20R1	42	47	74	1774	38		2
	9PV20C0029 F20R2	42	47	74	1795	38		12
	9PXXXXXXXX XXXXX	...	...	...	...	...		Interp.
	9640D0029 A00R2	42	63.9	74	2628	35		15
93PM Gen 2 UPS	9AA105C300 A00R0	42	22	74	2075	39		22
	9AA105C000 A00R0	42	22	74	855	43.5		24
	9ABXXXXXXXX XXXXX	...	...	...	...	...		Interp.
	9ACXXXXXXXX XXXXX	...	...	...	...	...		Interp.
	9AC210C000 E20R0	42	30	74	1144	35.7		Interp.
	9ADXXXXXXXX XXXXX	...	...	...	...	...		Interp.
	9AEXXXXXXXXX XXXXX	...	...	...	...	...		Interp.
	9AFXXXXXXXX XXXXX	...	...	...	...	...		Interp.
	9AF525C000 A00R0	42	22	74	1230	42.1		23
	9AF525C000 E20R0	42	30	74	1465	39.4		25
	9AF525C000 E20R0	42	34.5	74	1778	39.4		Interp.
	9GCXXXXXXXX XXXXX	42	22	74	570	38.3		Interp.
93PM-L UPS	9GCXXXXXXXX XXXXX	...	...	...	...	...		Interp.
	9GC312A700 A02R0	42	22	74	1604	43.5		16
	9GCXXXXXXXX XXXXX	42	30	74	742	37.1		Interp.
	9GCXXXXXXXX XXXXX	...	...	...	...	...		Interp.
	9GCXXXXXXXX XXXXX	42	30	74	1765	42.5		Interp.



Manufacturer: Eaton Corporation
Product Type: UPS
Model Line: 93PM and 93PM-L

Seismic Parameters		Building Codes
$S_{DS} = 1.83g$ for $R_{\mu}=1.3, H_f=3.5$	$I_p=1.5$	CBC 2025
$S_{DS} = 1.83g$ for $R_u=1.0, H_f=1.0$		

Mounting Configuration: Base Mounted - Rigid

Options Summary

20kVA - 400kVA
Carbon Steel Frame and Enclosure

See model line numbering pages for the significance of "X".
Dimensions are Max without seismic mounting kit. Weights are Max.

Pre Compliance

Manufacturer: Eaton Corporation
Product Type: UPS
Model Line: 93PM UPS

Seismic Parameters

$S_{DS} = 1.83g$ for $R_{\mu}=1.3, H_f=3.5$
 $S_{DS} = 1.83g$ for $R_{\mu}=1.0, H_f=1.0$

$I_p=1.5$

Building Codes

CBC 2025

TABLE 1.1

Model Line Numbering (93PM)

Column	Significance	Description
Columns 1 & 2	Model Line	9P = 93PM 1.0 pf
Column 3	Base Model	A = 93PM-50 Capacity Frame
		B = 93PM-50 Redundant Frame, 1 UPM
		C = 93PM-50 Redundant Frame, 2 UPM
		D = 93PM-100 Capacity Frame, 1 UPM
		E = 93PM-100 Capacity Frame, 2 UPM
		F = 93PM-100 Redundant Frame, 1 UPM
		G = 93PM-100 Redundant Frame, 2 UPM
		H = 93PM-100 Redundant Frame, 3 UPM
		J = 93PM-150 Capacity Frame, 1 UPM
		K = 93PM-150 Capacity Frame, 2 UPM
		L = 93PM-150 Capacity Frame, 3 UPM
		M = 93PM-150 Redundant Frame, 1 UPM
		N = 93PM-150 Redundant Frame, 2 UPM
		P = 93PM-150 Redundant Frame, 3 UPM
		R = 93PM-150 Redundant Frame, 4 UPM
		S = 93PM-200 Capacity Frame, 1 UPM
		T = 93PM-200 Capacity Frame, 2 UPM
		U = 93PM-200 Capacity Frame, 3 UPM
		V = 93PM-200 Capacity Frame, 4 UPM
		Z = N/A, Used on P-110000112 93PM Accessories CTO
		9 = No UPS (SideCar Only)
		0 = 93PM-400 Capacity Frame, 2 UPM
		1 = 93PM-400 Capacity Frame, 3 UPM
		2 = 93PM-400 Capacity Frame, 4 UPM
		3 = 93PM-400 Capacity Frame, 5 UPM
		4 = 93PM-400 Capacity Frame, 6 UPM
		5 = 93PM-400 Capacity Frame, 7 UPM
		6 = 93PM-400 Capacity Frame, 8 UPM
Columns 4 & 5	UPS kVA Rating	02 = 20 kVA
		03 = 30 kVA
		04 = 40 kVA
		05 = 50 kVA
		06 = 60 kVA

Manufacturer: Eaton Corporation
Product Type: UPS
Model Line: 93PM UPS

Seismic Parameters

$S_{DS} = 1.83g$ for $R_{\mu}=1.3, H_f=3.5$
 $S_{DS} = 1.83g$ for $R_{\mu}=1.0, H_f=1.0$ $I_p=1.5$

Building Codes

CBC 2025

TABLE 1.1

Model Line Numbering (93PM)

Column	Significance	Description
Columns 4 & 5	UPS kVA Rating	07 = 70 kVA
		08 = 80 kVA
		09 = 90 kVA
		10 = 100 kVA
		11 = 110 kVA
		12 = 120 kVA
		13 = 130 kVA
		14 = 140 kVA
		15 = 150 kVA
		16 = 160 kVA
		17 = 170 kVA
		18 = 180 kVA
		19 = 190 kVA
		20 = 200 kVA
		25 = 250 kVA
		30 = 300 kVA
		35 = 350 kVA
		40 = 400 kVA
Column 6	Voltage Configuration	A = 400V, 4 wire
		B = 400V, 3 wire
		C = 480V, 4 wire
		D = 480V, 3 wire
		E = 380V, 4 wire
		F = 380V, 3 wire
		G = 360V, 4 wire
		H = 360V, 3 wire
		J = 415V, 4 wire
		K = 415V, 3 wire
		L = 440V, 4 wire
		M = 440V, 3 wire
		N = 480V 3-wire / 208V 4-wire (For use with IAC-D)
		P = 208V 3-wire / 208V 4-wire (For use with IAC-D)
Column 7	Internal Batteries	0 = No Internal Batteries; No Battery Breaker
		2 = With Internal Batteries, 3 strings, type 9Ah

Manufacturer: Eaton Corporation
Product Type: UPS
Model Line: 93PM UPS

Seismic Parameters

$S_{DS} = 1.83g$ for $R_{\mu}=1.3, H_f=3.5$
 $S_{DS} = 1.83g$ for $R_{\mu}=1.0, H_f=1.0$

Building Codes

$I_p=1.5$ CBC 2025

TABLE 1.1

Model Line Numbering (93PM)

Column	Significance	Description
Column 7	Internal Batteries	4 = With Internal Batteries, 4 strings, type 9Ah
		6 = With Internal Batteries, 5 strings, type 9Ah
		B = With Internal Battery Trays (3 strings), type 9Ah (Batteries not Supplied)
		C = With Internal Battery Trays (4 strings), type 9Ah (Batteries not Supplied)
		D = With Internal Battery Trays (5 strings), type 9Ah (Batteries not Supplied)
		K = With Internal Batteries and Thermal Sensor (3 strings), type 9Ah
		L = With Internal Batteries and Thermal Sensor (4 strings), type 9Ah
		M = With Internal Batteries and Thermal Sensor (5 strings), type 9Ah
Column 8	Input Options	0 = Single Feed, No Internal MBS
		1 = Single Feed, With Internal MBS
		2 = Dual Feed, No Internal MBS
		3 = Dual Feed, With Internal MBS
Column 9	Efficiency Options	0 = No ESS, No VMSS
		1 = No ESS, With VMSS
		2 = With ESS, No VMSS
		3 = With ESS, With VMSS
Column 10	Communication Options	0 = None (Empty)
		5 = PXGMS
		7 = PXGMS and EMP
		8 = Industrial Relay
		9 = PXGMS, Industrial Relay, and EMP
Column 11	Sidecar / Top Entry Options	A = No Sidecar
		B = No Breakers, Left Mount
		C = No Breakers, Right Mount
		D = 2 Breaker, Left Mount (MBS)
		E = 3 Breaker, Left Mount (MBS)
		F = 4 Breaker, Left Mount (MBS)
		G = 2 Breaker, Right Mount (MBS)
		H = 3 Breaker, Right Mount (MBS)
		J = 4 Breaker, Right Mount (MBS)
		K = 3 Breaker, Left Mount (Tie, External Capacity)

SPECIAL SEISMIC CERTIFICATION CERTIFIED COMPONENTS

Manufacturer: Eaton Corporation
Product Type: UPS
Model Line: 93PM UPS

Seismic Parameters

$S_{DS} = 1.83g$ for $R_{\mu}=1.3, H_f=3.5$
 $S_{DS} = 1.83g$ for $R_{\mu}=1.0, H_f=1.0$

Building Codes

$I_p=1.5$ CBC 2025

TABLE 1.1

Model Line Numbering (93PM)

Column	Significance	Description
Column 11	Sidecar / Top Entry Options	L = 4 Breaker, Left Mount (Tie w/MBS, External Capacity) M = 3 Breaker, Right Mount (Tie, External Capacity) N = 4 Breaker, Right Mount (Tie, w/MBS, External Capacity) P = 3 Breaker, Left Mount (Tie, External Redundant) R = 4 Breaker, Left Mount (Tie w/MBS, External Redundant) S = 3 Breaker, Right Mount (Tie, External Redundant) T = 4 Breaker, Right Mount (Tie, w/MBS, External Redundant) U = 2 Breaker, Left Mount (Tie, External Capacity / Redundant) V = 2 Breaker, Right Mount (Tie, External Capacity / Redundant)
Column 12	Sidecar Breaker kAIC Rating	0 = No Specification 1 = STD kAIC, all Breakers Aux 2 = STD kAIC, MBS Aux Only 3 = High kAIC, all Breakers Aux 4 = High kAIC, MBS Aux Only
Column 13	Cabinet Configuration ¹	0 = With Dress Skins, Top Air Exhaust 1 = With Dress Skins, Rear Air Exhaust 4 = With Dress Skins, Top Air Exhaust, Sidecar Ship Separate 5 = With Dress Skins, Rear Air Exhaust, Sidecar Ship Separate
Column 14	Factory Location ²	R = Raleigh F = FAA M = Healthcare L = UL 924 A = UL 924a P = Power Conditioner (RPO) C = Frequency Converter (RPO)
Column 15	Generation Code	0 = Initial Release 1 = ESS 2 = 50kW STS w/Contactors 3-9 = Future Product Generation Codes

Notes:

1. Option 4 and 5 denotes whether the unit is built on site or at factory. Sidecar is attached at site if building doors will not accommodate size of fully constructed unit.

2. Based on runtime only.

Manufacturer: Eaton Corporation
Product Type: UPS
Model Line: 93PM Gen 2 UPS

Seismic Parameters

$S_{DS} = 1.83g$ for $R_{\mu}=1.3, H_f=3.5$
 $S_{DS} = 1.83g$ for $R_{\mu}=1.0, H_f=1.0$

Building Codes

$I_p=1.5$ CBC 2025

TABLE 1.2

Model Line Numbering (Gen2)

Column	Significance	Description
Columns 1 & 2	Model Line	9A = 93PM-Gen2 1.0 pf
Columns 3 & 4	Base Model	A1 = 93PM Gen2-50 Capacity Frame 1 UPM
		B1 = 93PM Gen2-50 Redundant Frame 1 UPM
		B2 = 93PM Gen2-50 Redundant Frame 2 UPM
		C1 = 93PM Gen2-100 Capacity Frame 1 UPM
		C2 = 93PM Gen2-100 Capacity Frame 2 UPM
		C3 = 93PM Gen2-100 Capacity Frame 3 UPM
		D1 = 93PM Gen2-150 Capacity Frame 1 UPM
		D2 = 93PM Gen2-150 Capacity Frame 2 UPM
		D3 = 93PM Gen2-150 Capacity Frame 3 UPM
		D4 = 93PM Gen2-150 Capacity Frame 4 UPM
		E1 = 93PM Gen2-200 Capacity Frame 1 UPM
		E2 = 93PM Gen2-200 Capacity Frame 2 UPM
		E3 = 93PM Gen2-200 Capacity Frame 3 UPM
		E4 = 93PM Gen2-200 Capacity Frame 4 UPM
		E5 = 93PM Gen2-200 Capacity Frame 5 UPM
		F1 = 93PM Gen2-250 Capacity Frame 1 UPM
		F2 = 93PM Gen2-250 Capacity Frame 2 UPM
		F3 = 93PM Gen2-250 Capacity Frame 3 UPM
		F4 = 93PM Gen2-250 Capacity Frame 4 UPM
		F5 = 93PM Gen2-250 Capacity Frame 5 UPM
Columns 5 & 6	UPS kVA Rating	02 = 20 kVA
		03 = 30 kVA
		04 = 40 kVA
		05 = 50 kVA
		06 = 60 kVA
		07 = 70 kVA
		08 = 80 kVA
		09 = 90 kVA
		10 = 100 kVA
		11 = 110 kVA
		12 = 120 kVA
		13 = 130 kVA
		14 = 140 kVA

Manufacturer: Eaton Corporation
Product Type: UPS
Model Line: 93PM Gen 2 UPS

Seismic Parameters

$S_{DS} = 1.83g$ for $R_{\mu}=1.3, H_f=3.5$
 $S_{DS} = 1.83g$ for $R_{\mu}=1.0, H_f=1.0$

Building Codes

$I_p=1.5$ CBC 2025

TABLE 1.2

Model Line Numbering (Gen2)

Column	Significance	Description
Columns 5 & 6	UPS kVA Rating	15 = 150 kVA
		16 = 160 kVA
		17 = 170 kVA
		18 = 180 kVA
		19 = 190 kVA
		20 = 200 kVA
		21 = 210 kVA
		22 = 220 kVA
		23 = 230 kVA
		24 = 240 kVA
		25 = 250 kVA
Column 7	Voltage Configuration	A = 400V, 4 wire
		B = 400V, 3 wire
		C = 480V, 4 wire
		D = 480V, 3 wire
		E = 415V, 4 wire
		F = 415V, 3 wire
		G = 440V, 4 wire
		H = 440V, 3 wire
		J = 480 3 wire / 208 4 wire
		M = 400V, 4 wire
		N = 400V, 3 wire
		P = 480V, 4 wire
		R = 480V, 3 wire
		S = 415V, 4 wire
		T = 415V, 3 wire
		X = 440V, 4 wire
		Y = 440V, 3 wire
		Z = 480 3 wire / 208 4 wire
Column 8	Battery Configuration	0 = None
		1 = With Internal Batteries 3 strings, type 9Ahr
		2 = With Internal Batteries 4 strings, type 9Ahr
		3 = With Internal Batteries 5 strings, type 9Ahr
		4 = With Internal Batteries 3 strings, type 9Ahr (Batteries Not Supplied)

Manufacturer: Eaton Corporation
Product Type: UPS
Model Line: 93PM Gen 2 UPS

Seismic Parameters

$S_{DS} = 1.83g$ for $R_{\mu}=1.3, H_f=3.5$
 $S_{DS} = 1.83g$ for $R_{\mu}=1.0, H_f=1.0$

$I_p=1.5$

Building Codes

CBC 2025

TABLE 1.2

Model Line Numbering (Gen2)

Column	Significance	Description
Column 8	Battery Configuration	5 = With Internal Batteries 4 strings, type 9Ahr (Batteries Not Supplied)
		6 = With Internal Batteries 5 strings, type 9Ahr (Batteries Not Supplied)
		7 = With Internal Batteries And Thermal Sensors 3 strings, type 9Ahr
		8 = With Internal Batteries And Thermal Sensors 4 strings, type 9Ahr
		9 = With Internal Batteries And Thermal Sensors 5 strings, type 9Ahr
		A = With Internal Batteries 2 strings + 3 strings type 9Ahr
		B = Separate battery
		C = Common battery
		U = UL9540
		V = UL9540
Column 9	Efficiency Options	0 = No ESS, No VMSS
		1 = No ESS, With VMSS
		2 = With ESS, no VMSS
		3 = With ESS, With VMSS
Column 10	Communication Options	0 = None
		1 = Environmental Monitoring Probe
		2 = INDGW-M2 and Industrial Relay Card
		3 = EMP gen 2 and Industrial Relay Card
		4 = Industrial Gateway
		5 = INDGW-M2
		7 = INDGW-M2 and EMP gen 2
		8 = Industrial Relay Card
		9 = INDGW-M2, Industrial Relay Card and EMP gen 2
Column 11	Sidecar / Top Entry Options	A = None
		B = Left Top Entry Sidecar, No Breakers
		C = Right Top Entry Sidecar, No Breakers
		D = Left MBS, 2 Breakers, MIS/MBP
		E = Left MBS, 3 Breakers, BIB/MIS/MBP
		F = Left MBS, 4 Breakers, RIB/BIB/MIS/MBP
		G = Right MBS, 2 Breakers, MIS/MBP
		H = Right MBS, 3 Breakers, BIB/MIS/MBP
		J = Right MBS, 4 Breakers, RIB/BIB/MIS/MBP



Manufacturer: Eaton Corporation
Product Type: UPS
Model Line: 93PM Gen 2 UPS

$S_{DS} = 1.83g$ for $R_\mu=1.3, H_f=3.5$
 $S_{DS} = 1.83g$ for $R_\mu=1.0, H_f=1.0$ $I_p=1.5$

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Model Line Numbering (Gen2)

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Manufacturer: Eaton Corporation
Product Type: UPS
Model Line: 93PM-L

Seismic Parameters

$S_{DS} = 1.83g$ for $R_{\mu}=1.3, H_f=3.5$
 $S_{DS} = 1.83g$ for $R_{\mu}=1.0, H_f=1.0$

Building Codes

$I_p=1.5$ CBC 2025

TABLE 1.3 Model Line Numbering (93PM-L)

Column	Significance	Description
Columns 1 & 2	Model Line	9G = 93PM-L (208V)
Column 3 & 4	Model-UPM Count	C1 = 93PM-L 60 Capacity Frame, 1 UPM
		C2 = 93PM-L 60 Capacity Frame, 2 UPM
		C3 = 93PM-L 60 Capacity Frame, 3 UPM
		F1 = 93PM-L 120 Capacity Frame, 1 UPM
		F2 = 93PM-L 120 Capacity Frame, 2 UPM
		F3 = 93PM-L 120 Capacity Frame, 3 UPM
		F4 = 93PM-L 120 Capacity Frame, 4 UPM
		F5 = 93PM-L 120 Capacity Frame, 5 UPM
		F6 = 93PM-L 120 Capacity Frame, 6 UPM
		H1 = 93PM-L 160 Capacity Frame, 1 UPM
		H2 = 93PM-L 160 Capacity Frame, 2 UPM
		H3 = 93PM-L 160 Capacity Frame, 3 UPM
		H4 = 93PM-L 160 Capacity Frame, 4 UPM
		H5 = 93PM-L 160 Capacity Frame, 5 UPM
		H6 = 93PM-L 160 Capacity Frame, 6 UPM
		H7 = 93PM-L 160 Capacity Frame, 7 UPM
		H8 = 93PM-L 160 Capacity Frame, 8 UPM
		K1 = 93PM-L 200 Capacity Frame, 1 UPM
		K2 = 93PM-L 200 Capacity Frame, 2 UPM
		K3 = 93PM-L 200 Capacity Frame, 3 UPM
		K4 = 93PM-L 200 Capacity Frame, 4 UPM
		K5 = 93PM-L 200 Capacity Frame, 5 UPM
		K6 = 93PM-L 200 Capacity Frame, 6 UPM
		K7 = 93PM-L 200 Capacity Frame, 7 UPM
		K8 = 93PM-L 200 Capacity Frame, 8 UPM
		K9 = 93PM-L 200 Capacity Frame, 9 UPM
		K0 = 93PM-L 200 Capacity Frame, 10 UPM
Columns 5 & 6	UPS kVA Rating	9C = No UPS (Sidecar only) 60kVA frame, CTO5/6=12
		9K = No UPS (Sidecar only) 120kVA frame, CTO5/6=24
		02 = 10kVA
		03 = 15kVA
		04 = 20kVA
		05 = 25kVA

Manufacturer: Eaton Corporation
Product Type: UPS
Model Line: 93PM-L

Seismic Parameters

$S_{DS} = 1.83g$ for $R_{\mu}=1.3, H_f=3.5$
 $S_{DS} = 1.83g$ for $R_{\mu}=1.0, H_f=1.0$

Building Codes

$I_p=1.5$ CBC 2025

TABLE 1.3

Model Line Numbering (93PM-L)

Column	Significance	Description
Columns 5 & 6	UPS kVA Rating	06 = 30kVA
		07 = 35kVA
		08 = 40kVA
		09 = 45kVA
		10 = 50kVA
		11 = 55kVA
		12 = 60kVA
		13 = 65kVA
		14 = 70kVA
		15 = 75kVA
		16 = 80kVA
		17 = 85kVA
		18 = 90kVA
		19 = 95kVA
		20 = 100kVA
		21 = 105kVA
		22 = 110kVA
		23 = 115kVA
		24 = 120kVA
		25 = 125kVA
		26 = 130kVA
		27 = 135kVA
		28 = 140kVA
		29 = 145kVA
		30 = 150kVA
		31 = 155kVA
		32 = 160kVA
		33 = 165kVA
		34 = 170kVA
		35 = 175kVA
		36 = 180kVA
		37 = 185kVA
		38 = 190kVA
		39 = 195kVA

Manufacturer: Eaton Corporation
Product Type: UPS
Model Line: 93PM-L

Seismic Parameters

$S_{DS} = 1.83g$ for $R_{\mu}=1.3, H_f=3.5$
 $S_{DS} = 1.83g$ for $R_{\mu}=1.0, H_f=1.0$

Building Codes

$I_p=1.5$ CBC 2025

TABLE 1.3 Model Line Numbering (93PM-L)

Column	Significance	Description
Columns 5 & 6	UPS kVA Rating	40 = 200kVA
Column 7	Voltage Configuration	A = Single Input 208/220V, 50/60Hz; Output 208/220V, 1.0p.f., 50/60Hz B = Dual Input 208/220V, 50/60Hz; Output 208/220V, 1.0p.f., 50/60Hz
Column 8	Internal Batteries	0 = No Internal Batteries; No Battery Breaker 2 = With Internal Batteries, 2 strings 3 = With Internal Batteries, 3 strings 4 = With Internal Batteries, 4 strings 5 = 2 Strings & Thermal Sensors 6 = 3 Strings & Thermal Sensors 7 = 4 Strings & Thermal Sensors 8 = 2 Strings (Batteries Not Supplied) 9 = 3 Strings (Batteries Not Supplied) A = 4 Strings (Batteries Not Supplied)
Column 9	Efficiency Options	0 = No ESS 1 = 2 = ESS
Column 10	Connectivity Slots	0 = None 1 = Environmental Monitoring Probe 2 = PXGMS and IRC 3 = EMP and IRC 4 = 5 = Power Xpert Gateway Mini-Slot 6 = 7 = PXGMS and EMP 8 = industrial Relay Card (IRC) 9 = PXGMS, IRC, and EMP
Column 11	Sidecar/Wireway Options	A = None B = Left Top Entry Sidecar, No Breakers C = Right Top Entry Sidecar, No Breakers D = Left MBS, 2 Breakers, MIS/MBP E = Left MBS, 3 Breakers, BIB/MIS/MBP F = Left MBS, 4 Breakers, RIB/BIB/MIS/MBP G = Right MBS, 2 Breakers, MIS/MBP H = 3 Breaker, Right Mount (MBS)



Manufacturer: Eaton Corporation
Product Type: UPS
Model Line: 93PM-L

$S_{DS} = 1.83g$ for $R_{\mu}=1.3, H_f=3.5$
 $S_{DS} = 1.83g$ for $R_{\mu}=1.0, H_f=1.0$ $I_p=1.5$

CBC 2025

Model Line Numbering (93PM-L)

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Manufacturer: Eaton Corporation
Product Type: UPS
Model Line: 93PM IAC

$S_{DS} = 1.83g$ for $R_\mu=1.3, H_f=3.5$	$I_p=1.5$
$S_{DS} = 1.83g$ for $R_\mu=1.0, H_f=1.0$	

CBC 2025

Mounting Configuration: Base Mounted - Rigid

Options Summary

See model line numbering pages for the significance of "X".
Dimensions are Max without seismic mounting kit. Weights are Max.

Manufacturer: Eaton Corporation
Product Type: UPS
Model Line: 93PM Integrated Accessory Cabinet (IAC)

Seismic Parameters

$S_{DS} = 1.83g$ for $R_{\mu}=1.3, H_f=3.5$
 $S_{DS} = 1.83g$ for $R_{\mu}=1.0, H_f=1.0$

Building Codes

$I_p=1.5$ CBC 2025

TABLE 2.1

Model Line Numbering (IAC-T)

Column	Significance	Description
Columns 1 -3	Model Line	9PZ = 93PM Accessories
Column 4	Accessory	M = IAC-T
Column 5	Associated UPS Model	A = 50 kW (93PM G1)
		B = 100 kW (93PM G1)
		C = 150 kW (93PM G1)
		D = 200 kW (93PM G1)
		E = 50 kW (93PM G2)
		F = 100 kW (93PM G2)
		G = 150 kW (93PM G2)
		H = 200 kW (93PM G2)
Column 6	UPS Configuration	A = 1+1
		B = 2+0
		C = 2+1
		D = 3+0
		E = 3+1
		F = 4+0
Column 7	MIS/MBP Breakers	0 = No MIS, no MBP
		1 = MIS, no MBP
		2 = MIS, MBP
Column 8	Exhaust Configuration	0 = Top Exhaust
		1 = Rear Exhaust
Column 9	Open	0 = Open
Column 10	Open	0 = Open
Column 11	Open	0 = Open
Column 12	Open	0 = Open
Column 13	Open	0 = Open
Column 14	Structural Configuration	0 = Standard
		1 = OSHPD
Column 15	Generation Code	0-9 = Product Generation Codes

Manufacturer: Eaton Corporation
Product Type: UPS
Model Line: 93PM Integrated Accessory Cabinet (IAC)

Seismic Parameters

$S_{DS} = 1.83g$ for $R_{\mu}=1.3, H_f=3.5$
 $S_{DS} = 1.83g$ for $R_{\mu}=1.0, H_f=1.0$

Building Codes

$I_p=1.5$ CBC 2025

TABLE 2.2 Model Line Numbering (IAC-D)

Column	Significance	Description
Columns 1 -3	Model Line	9PZ = 93PM Accessories
Column 4	Accessory	D = 50 kVA 93PM G1, IAC-D, 480 V Input
		E = 100 kVA 93PM G1, IAC-D, 480 V Input
		F = 150 kVA 93PM G1, IAC-D, 480 V Input
		G = 200 kVA 93PM G1, IAC-D, 480 V Input
		N = 50 kVA 93PM G1, IAC-D, 208 V Input
		P = 100 kVA 93PM G1, IAC-D, 208 V Input
		0 = 150 kVA IAC-D, 480 V Input Copper XFMR
		1 = 50 kW (93PM G2)
		2 = 100 kW (93PM G2)
		3 = 150 kW (93PM G2)
		4 = 200 kW (93PM G2)
		6 = 50 kW (93PM G2), IAC-D, 208V Input
		7 = 100 kW (93PM G2), IAC-D, 208V Input
Column 5	Output Transformer	1 = K1 Non TP1, 480V/208V Delta/Wye
		2 = K13 Non TP1, 480V/208V Delta/Wye
		3 = K1 TP1, 480V/208V Delta/Wye
		4 = K13 TP1, 480V/208V Delta/Wye
Column 6	Breaker kAIC Rating	S = STD kAIC
		H = High kAIC
Column 7	Distribution Top	0 = No Distribution
		B = 225 A Panel Board Top
		1 = 1 Subfeed Breaker
		2 = 2 Subfeed Breakers
		3 = 3 Subfeed Breakers
		4 = 4 Subfeed Breakers
		5 = 5 Subfeed Breakers
		6 = 1 Subfeed Breaker + 4 Field Upgrades
		7 = 2 Subfeed Breakers + 3 Field Upgrades
		8 = 3 Subfeed Breakers + 2 Field Upgrades
		9 = 4 Subfeed Breakers + 1 Field Upgrade
Column 8	Distribution Bottom	0 = No Distribution
		B = 225 A Panel Board Bottom
		1 = 1 Subfeed Breaker



Manufacturer: Eaton Corporation
Product Type: UPS
Model Line: 93PM Integrated Accessory Cabinet (IAC)

$S_{DS} = 1.83g$ for $R_\mu=1.3, H_f=3.5$
 $S_{DS} = 1.83g$ for $R_\mu=1.0, H_f=1.0$ $I_p=1.5$

CBC 2025

Model Line Numbering (IAC-D)

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Manufacturer: Eaton Corporation
Product Type: UPS
Model Line: 93PM Integrated Accessory Cabinet (IAC)

$S_{DS} = 1.83g$ for $R_u=1.3, H_f=3.5$	$I_p=1.5$
$S_{DS} = 1.83g$ for $R_u=1.0, H_f=1.0$	

CBC 2025

Model Line Numbering (IAC-B)



Manufacturer: Eaton Corporation
Product Type: UPS
Model Line: 93PM Integrated Accessory Cabinet (IAC)

$S_{DS} = 1.83g$ for $R_\mu=1.3, H_f=3.5$
 $S_{DS} = 1.83g$ for $R_\mu=1.0, H_f=1.0$

$I_p=1.5$

CBC 2025

TABLE 2.4		Model Line Numbering (IAC-BD)	
1	2	3	4
5	6	7	8
9	10	11	12
13	14	15	16
17	18	19	20
21	22	23	24
25	26	27	28
29	30	31	32
33	34	35	36
37	38	39	40
41	42	43	44
45	46	47	48
49	50	51	52
53	54	55	56
57	58	59	60
61	62	63	64
65	66	67	68
69	70	71	72
73	74	75	76
77	78	79	80
81	82	83	84
85	86	87	88
89	90	91	92
93	94	95	96
97	98	99	100

[illegible]

Manufacturer: Eaton Corporation
Product Type: UPS
Model Line: 93PM Integrated Accessory Cabinet (IAC)

Seismic Parameters

$S_{DS} = 1.83g$ for $R_{\mu}=1.3, H_f=3.5$
 $S_{DS} = 1.83g$ for $R_{\mu}=1.0, H_f=1.0$

Building Codes

$I_p=1.5$ CBC 2025

TABLE 2.5 Model Line Numbering (IAC-PD)

Column	Significance	Description
Columns 1 -3	Model Line	9PZ = 93PM Accessories
Column 4	Accessory	X = IAC-PD
Column 5	Associated UPS Model or Distribution Cabinet	A = 60 kVA 93PM-L-60, 208V
		B = 120 kVA 93PM-L-120, 208V
		C = 160 kVA 93PM-L-160, 208V
		D = 200 kVA 93PM-L-200, 208V
		E = 50 kVA 93PM 50, 480V
		F = 100 kVA 93PM 100, 480V
		G = 150 kVA 93PM 150, 480V
		H = 200 kVA 93PM 200, 480V
		J = 400 kVA 93PM 400, 480V
		K = 208V 250A IAC-D Subfeed breaker
		L = 50 kVA IAC-D (208V) w/no Distribution Option
		M = 100 kVA IAC-D (208V) w/no Distribution Option
		N = 150 kVA IAC-D (208V) w/no Distribution Option
		P = 200 kVA IAC-D (208V) w/no Distribution Option
Column 6	Input Voltage	2 = 208Y/120V 4-Wire
		4 = 480Y/277V 4-Wire
		5 = 480V 3-Wire
Column 7	Distribution Top	0 = No Distribution
		B = 225A Panel Board (208V/120V)
		C = 400A Panel Board (208V/120V)
		D = 225A Panel Board (480V/277V)
		1 = 1 Subfeed Breaker (250A)
		2 = 2 Subfeed Breaker (250A)
		3 = 3 Subfeed Breaker (250A)
		4 = 4 Subfeed Breaker (400A)
		5 = 5 Subfeed Breaker (400A)
Column 8	Distribution Bottom	B = 225A Panel Board (208V/120V)
		C = 400A Panel Board (208V/120V)
		D = 225A Panel Board (480V/277V)
		4 = 1 Subfeed Breaker (400A)
		5 = 2 Subfeed Breaker (400A)



Manufacturer: Eaton Corporation
Product Type: UPS
Model Line: 93PM Integrated Accessory Cabinet (IAC)

$S_{DS} = 1.83g$ for $R_{\mu}=1.3, H_f=3.5$
 $S_{DS} = 1.83g$ for $R_{\mu}=1.0, H_f=1.0$

$I_p=1.5$

CBC 2025

Model Line Numbering (IAC-PD)

Pre Compliance



Manufacturer: Eaton Corporation
Product Type: UPS
Model Line: 93PM IBC

$S_{DS} = 1.83g$ for $R_\mu=1.3, H_f=3.5$	$I_p=1.5$
$S_{DS} = 1.83g$ for $R_\mu=1.0, H_f=1.0$	

CBC 2025

Mounting Configuration: Base Mounted - Rigid

20kVA - 200kVA
Carbon Steel Frame and Enclosure

See model line numbering pages for the significance of "X".
Dimensions are Max without seismic mounting kit. Weights are
Max.

Pre Compliance

Manufacturer: Eaton Corporation
Product Type: UPS
Model Line: 93PM Integrated Accessory Cabinet (IAC)

Seismic Parameters

$S_{DS} = 1.83g$ for $R_{\mu}=1.3, H_f=3.5$
 $S_{DS} = 1.83g$ for $R_{\mu}=1.0, H_f=1.0$

Building Codes

$I_p=1.5$ CBC 2025

TABLE 3.1

Model Line Numbering (IBC)

Column	Significance	Description
Columns 1 -3	Model Line	9PZ = 93PM Accessories
Column 4	Accessory	A = IBC-L
		B = IBC-S
		C = IBC-LH
		T = IBC-LW (300A Breaker)
		U = IBC-LHW (500A Breaker)
		V = IBC-LW (400A Breaker)
Column 5	Associated UPS Model	W = IBC-SW
		A = 50 KW (93PM G1)
		B = 100 KW (93PM G1)
		C = 150 KW (93PM G1)
		D = 200 KW (93PM G1)
		E = 400 KW (93PM G1) (480V)
		F = 60 KW (93PM-L)
		G = 120 KW (93PM-L)
		H = 160 KW (93PM-L)
		J = 200 KW (93PM-L) (208V)
		K = 50 KW (93PM G2)
		L = 100 KW (93PM G2)
		M = 150 KW (93PM G2)
Column 6	Input Voltage	N = 200 KW (93PM G2)
		P = 250 KW (93PM G2) (480V)
		2 = 208Y/120V 4-Wire
		4 = 480Y/277V 4-Wire
Columns 7-9	Battery Type	5 = 480V 3-Wire
		B37 = UPS12-400MR, 1/4 (M6) Lugs
		E28 = HRL 12-280, 1/4 (M6) Lugs
		E39 = PWR 12-390, 1/4 (M6) Lugs
		E50 = PWR 12-500, 1/4 (M6) Lugs
		E54 = HRL 12-540, 1/4 (M6) Lugs
		E57 = PWP 12-502, 1/4 (M6) Lugs
		H41 = ENERSYS XE95, 3/8 (M10) Lugs
Columns 7-9	Battery Type	N54 = NSB12-540, 1/4 (M6) Lugs

Manufacturer: Eaton Corporation
Product Type: UPS
Model Line: 93PM Integrated Accessory Cabinet (IAC)

Seismic Parameters

$S_{DS} = 1.83g$ for $R_{\mu}=1.3, H_f=3.5$
 $S_{DS} = 1.83g$ for $R_{\mu}=1.0, H_f=1.0$

Building Codes

$I_p=1.5$ CBC 2025

TABLE 3.1

Model Line Numbering (IBC)

Column	Significance	Description
Columns 7-9	Battery Type ¹	Y08 = NPX-80RFR, #10 (M5) Lugs
		001 = Empty Tray Assembly IBC-L, IBC-LW, 1/4 (M6) Lugs
		002 = Empty Tray Assembly IBC-S
		003 = Empty Tray Assembly IBC-LH, IBC-LW (N54), 1/4 (M6) Lugs
		004 = Empty Tray Assembly IBC-LH, IBC-LW (H41), 3/8 (M10) Lugs
		005 = Empty Tray Assembly IBC-LW (E54/B37/N54), 1/4 (M6) Lugs
		006 = Empty Tray Assembly IBC-LW (H41), 3/8 (M10) Lugs
		007 = Empty Tray Assembly IBC-LH (B37/E54), 1/4 (M6) Lugs
Column 10	Remote/Top Entry Sidecar	0 = Line and Match, no Sidecar
		1 = Remote Installation, no Sidecar
		L = Remote with Left Sidecar for Top Entry (IBC-L/LH only)
		R = Remote with Right Sidecar for Top Entry (IBC-L/LH only)
Column 11	Number of Battery Cabinets	1 = 1 Cabinet
		2 = 2 Cabinets
		3 = 3 Cabinets
		4 = 4 Cabinets
		5 = 5 Cabinets
		6 = 6 Cabinets
		7 = 7 Cabinets
		8 = 8 Cabinets
Column 12	Number of Battery Strings	0 = Single String
		2 = 2 Battery Strings (IBC-S only)
		3 = 3 Battery Strings (IBC-S only)
Column 13	Battery Monitoring	0 = With Monitoring Tabs, Without Thermal Sensor
		1 = Without Monitoring Tabs, Without Thermal Sensor
		2 = With Monitoring Tabs, With Thermal Sensor
		3 = Without Monitoring Tabs, With Thermal Sensor
Column 14	Structural Configuration ²	0 = Standard
		1 = OSHPD
		2 = UL924
		3 = UL924/OSHPD
Column 15	Generation Code	0-9 = Product Generation Codes

1. 001-007 means the unit is shipped without batteries and they are installed onsite.

2. UL certification was completed after first OSP, nothing has changed on the unit.

SPECIAL SEISMIC CERTIFICATION CERTIFIED SUBCOMPONENTS

Manufacturer: Eaton Corporation
Product Type: UPS
Model Line: 93PM and 93PM-L

Seismic Parameters

$S_{DS} = 1.83g$ for $R_{\mu}=1.3, H_f=3.5$
 $S_{DS} = 1.83g$ for $R_{\mu}=1.0, H_f=1.0$

Building Codes

$I_p=1.5$ **CBC 2025**

TABLE 4

Table Description: Enclosures

Component (Manufacturer)	Model	Dimensions (in)			Wt. (lb)	Description	UUT
		D	W	H			
93PM (Eaton)	93PM Enclosures	42	20	74	366	93PM Small IAC-T/IBC-S Frame	5,6,7
		42	22	74	392	93PM STD UPS Frame	1
		42	22	74	495	93PM Gen 2 STD UPS Frame	22-24
		42	31	74	397	93PM IAC-D/Large IAC-T Frame	10,11
		42	32	74	435	93PM Large UPS Frame	Interp.
		42	31.3	74	520	93PM-L IAC-B	20,21
		42	31.3	74	540	93PM-L IAC-PD	Interp.
		42	30	74	557	93PM STD UPS + Small SC Frame	4
		42	30	74	660	93PM Gen2 STD UPS + Small SC Frame	25
		42	34.5	74	744	93PM Gen2 STD UPS + Large SC Frame	Interp.
		42	37	74	679	93PM STD UPS + Large SC Frame	Interp.
		42	47	74	722	93PM Large UPS + Large SC Frame	2,12
		42	32	74	856	93PM IBC-L Frame	8,13
		42	34	74	828	93PM Frame Asm, IBC-L Weld	Interp.
		42	40	74	1021	93PM IBC-L + Small SC Frame	9
		42	64	74	800	93PM 400kVA capacity UPS (8UPM)	15
		42	34	74	993	93PM IBC-LHW Line & Match	14
		42	22	74	495	93PM-L 60kVA Frame	16
		42	30	74	667	93PM-L 60kVA Frame w/empty SC	Interp.
		42	34.5	74	744	93PM-L 60kVA Frame w/MBS SC	Interp.
		42	22	74	621	93PM-L 120kVA Frame	Interp.
		42	34.5	74	859	93PM-L 120kVA Frame w/empty SC	Interp.
		42	34.5	74	870	93PM-L 120kVA Frame w/MBS SC	Interp.
		42	34.5	74	732	93PM-L 160kVA Frame	Interp.
		42	43.3	74	859	93PM-L 200kVA Frame	17
		42	16.9	74	443	93PM IBC-SW	18,19

SPECIAL SEISMIC CERTIFICATION CERTIFIED SUBCOMPONENTS

Manufacturer: Eaton Corporation
Product Type: UPS
Model Line: 93PM and 93PM-L

Seismic Parameters

$S_{DS} = 1.83g$ for $R_{\mu}=1.3, H_f=3.5$
 $S_{DS} = 1.83g$ for $R_{\mu}=1.0, H_f=1.0$

Building Codes

$I_p=1.5$ CBC 2025

TABLE 5

Table Description: Electircal Components

Component (Manufacturer)	Model	Description	Notes	UUT
Panel Board (Eaton)	122950146	PDU PRL1 225A; Cu		11
	122950148	PDU PRL2A 225A; Cu		Interp.
	122950147	PDU PRL1 400A; Cu		11
Power Modules (Eaton)	730-05211	208V-4 Wire 20kW UPM		16,17
	733-D2072	208V-4 Wire 20kW UPM		Interp.
	730-80505	480V-3 Wire 50kW UPM	New PCB layout, no structural change	Interp.
	730-B1045	480V-3 Wire 50kW UPM		1,2,4
	733-82035	480V-3 Wire 50kW UPM		Interp.
	744-A4535	480V-4 Wire 50kW UPM		Interp.
	730-D0057	480V-4 Wire 50kW UPM		12
	733-82116	480V-4 Wire 50kW UPM		22-25
Static Switches (Eaton)	730-D0039	50kW STS		1,4
	733-82081	93PM Gen2 50kW STS		24
	733-82082	93PM Gen2 150kW STS	CS Frame, AI Heat Sink	Interp.
	733-82083	93PM Gen2 250kW STS		18,19,21
	730-B1035	100kW STS		Interp.
	730-D0021	100/200kW STS		12
	730-05213	93PM-L 60kW STS		16
	730-05212	93PM-L 120kW STS		Interp.
	730-05214	93PM-L 200kW STS		17
Contactors (Eaton)	DILM17-10 (RDC60)	K5 Contactor (50kW); 1 lb.		1,4
	DILM115 (RDC60)	K5 Contactor (100kW); 5 lbs.		Interp.
	DILM185/22 (RDC60)	K5 Contactor (150kW); 14 lbs.		Interp.
	DILM250/22 (RDC48)	K5 Contactor (200kW); 17 lbs.		12
Transformers (Eaton)	WPV50012	50kVA, K1, TP1, 480/208 Delta/Wye		10
	WPN50131	50kVA, K13, Non TP1, 480/208 Delta/Wye		Interp.
	WPN50132	50kVA, K13, TP1, 480/208 Delta/Wye		Interp.
	WPV12011	100kVA, K1, Non TP1, 480/208 Delta/Wye		Interp.
	WPV12012	100kVA, K1, TP1, 480/208 Delta/Wye	AI Windings	Interp.
	WPN12132	100kVA, K13, TP1, 480/208 Delta/Wye		Interp.
	WPV49011	K1, Non TP1, 480/208 Delta/Wye		Interp.
	WPN49131	K13, Non TP1, 480/208 Delta/Wye		Interp.
	WPV49012	K1, TP1, 480/208 Delta/Wye		Interp.



SPECIAL SEISMIC CERTIFICATION CERTIFIED SUBCOMPONENTS

Seismic Parameters

Building Codes

CBC 2025

TABLE 5

Table Description: Electircal Components

[illegible]

SPECIAL SEISMIC CERTIFICATION CERTIFIED SUBCOMPONENTS

Manufacturer: Eaton Corporation
Product Type: UPS
Model Line: 93PM and 93PM-L

Seismic Parameters

$S_{DS} = 1.83g$ for $R_{\mu}=1.3, H_f=3.5$
 $S_{DS} = 1.83g$ for $R_{\mu}=1.0, H_f=1.0$

$I_p=1.5$

Building Codes

CBC 2025

TABLE 6

Table Description: Batteries

Component (Manufacturer)	Model	Description	Notes	UUT
Batteries (CSB)	HR1227WFR	12V, 27 W (5Ah), VRLA, ABS Housing, 4.3 lbs		16
	PWRH1227W2FR	12V, 27 W (5Ah), VRLA, ABS Housing, 4.3 lbs		Interp.
	PWHR1234W2FR	12V, 34 W (9Ah), VRLA, ABS Housing, 6 lbs		4,24
	HRL1234WF2FR	12V, 34 W (9Ah), VRLA, ABS Housing, 6 lbs		Interp.
	HRL1234W2FR	12V, 34 W (9Ah), VRLA, ABS Housing, 6 lbs		Interp.
	HRL12280WFR	12V, 34 W (9Ah), VRLA, ABS Housing, 57 lbs		Interp.
	PWHR12280W4FR	12V, 34 W (9Ah), VRLA, ABS Housing, 57 lbs		13
	HRL12330FR	12V, 280 W; PP Housing, 65 lbs		Interp.
	HRL12390FR	12V, 390 W; PP Housing, 73 lbs		Interp.
	PWHR12390W4FR	12V, 100 Ah; PP Housing, 74 lbs		Interp.
	XPL5700FR	12V, 110 Ah, VRLA; PP Housing, 82 lbs		Interp.
	PWXP12502W4FR	12V, 110 Ah, VRLA; PP Housing, 82 lbs		Interp.
	HRL12540WFR	12V, 143 Ah; PP Housing, 97 lbs		Interp.
	PWHR12540WFR	12V, 143 Ah; PP Housing, 97 lbs		Interp.
	HRL12500W	12V, 120 Ah; PP Housing, 101 lbs		Interp.
	PWHR12500W4FR	12V, 120 Ah; PP Housing, 101 lbs		8,9
Batteries (ENERSYS)	12HX300	12V, 83 Ah; PP Housing, 60 lbs		13
	12HX330	12V, 82 Ah; PP Housing, 71 lbs		Interp.
	0790-6005-C0K00	12V, 95 Ah; PP Housing, 77 lbs		9
	12HX400	12V, 120 Ah; PP Housing, 80 lbs		Interp.
	12HX505	12V, 506 Ah; PP Housing, 103 lbs		Interp.
	12HX540	12V, 123 Ah; PP Housing, 106 lbs		Interp.
	12HX500	12V, 506 Ah; PP Housing, 110 lbs		13
Batteries (G.S. YUASA)	NPX-80RFR	12V, 20 Ah, VRLA; PP Housing, 15 lbs		7
Batteries (NORTHSTAR)	NSB12540	12V, 125 Ah; PP Housing, 98 lbs		9,14
Batteries (C&D Dynasty)	UPS12-300MR	12V, 78 Ah; PP Housing, 58 lbs		13
	UPS12-350MR	12V, 93 Ah; PP Housing, 67 lbs		Interp.
	UPS12-400MR	12V, 100 Ah; PP Housing, 80 lbs		Interp.
	UPS12-490MR	12V, 134 Ah; PP Housing, 100 lbs		13

SPECIAL SEISMIC CERTIFICATION CERTIFIED SUBCOMPONENTS

Manufacturer: Eaton Corporation
Product Type: UPS
Model Line: 93PM and 93PM-L

Seismic Parameters

$S_{DS} = 1.83g$ for $R_{\mu}=1.3, H_f=3.5$
 $S_{DS} = 1.83g$ for $R_{\mu}=1.0, H_f=1.0$

Building Codes

$I_p=1.5$ CBC 2025

TABLE 7

Table Description: Breakers

Component (Manufacturer)	Model	Description	Notes	UUT
Breakers - Thermal Magnetic (Eaton - CH)	HFD3080L	FD-Frame, 3-Pole, 80A, 5 lbs		4,10
	FD	FD-Frame, 3-Pole, 80-225A, 5 lbs		Interp.
	HFD3110L	FD-Frame, 3-Pole, 110A, 5 lbs		1,4
	HFD4175ELA02S22	FD-Frame, 3-Pole, 175A, 5 lbs		4
	JG	JG-Frame, 3-Pole, 80-250A, 6 lbs		Interp.
	HJGE3125FAGC	JG-Frame, 3-Pole, 125A, 6 lbs		4
	HKDDC3300WA07S49	KD-Frame, 3-Pole, 300A, 12 lbs		7,13
	HKD3300W	KD-Frame, 3-Pole, 300A, 12 lbs		2,12
	KD	KD-Frame, 3-Pole, 175-400A, 12 lbs		Interp.
	HKD3400W	KD-Frame, 3-Pole, 400A, 12 lbs		2,12
	HLGE3300FAW	LG-Frame, 3-Pole, 300A, 16 lbs		6
	LG	LG-Frame, 3-Pole, 300-600A, 16 lbs		Interp.
	LD	LD-Frame, 3-Pole, 600A, 20 lbs		Interp.
	MD	MD-Frame, 3-Pole, 700A, 29 lbs		Interp.
	ND	ND-Frame, 3-Pole, 1200A, 45 lbs		Interp.
	NG	NG-Frame, 3-Pole, 800-1200A, 45 lbs		Interp.
	HNGS312032MC	NG-Frame, 3-Pole, 1200A, 45 lbs		6
AC Breakers ¹ - Thermal Magnetic, Frame 1-4 (Eaton)	PDG13*	Frame 1, 3-pole, 2.3 lbs	Not Modular	Interp.
	PDG13G1025TFFJ	Frame 1, 3-pole, 125A, 2.3 lbs	Not Modular	20b
	PDD23*	Frame 2, 3-pole, 240VAC, 4.7 lbs	Not Modular	
	PDG23*	Frame 2, 3-pole, 4.7 lbs	Not Modular	
	PDD33*	Frame 3, 3-pole, 240VAC, 14.8 lbs	Modular	
	PDF33*	Frame 3, 3-pole, 100% rated, 14.8 lbs	Modular	
	PDG33*	Frame 3, 3-pole, 14.8 lbs	Modular	
	PDG33K0400TFAN	Frame 3, 3-pole, 400A, 14.8 lbs	Modular	20a
	PDF43*	Frame 4, 3-pole, 100% rated, 31 lbs	Modular	
	PDG43*	Frame 4, 3-pole, 31 lbs	Modular	
	PDG43M0600TFAN	Frame 4, 3-pole, 600A, 31 lbs	Modular	20a/b

Notes:

¹Frame 3, 4, 5, and 6 breaker assemblies may be assembled from individual Eaton breaker components at time of incorporation into Eaton products.

*Breakers listed include part numbers which identify configuration, manufacturer, materials, and breaker rating. Interpolated items have the same manufacturer, materials, and have the same configuration and construction as the tested units.

SPECIAL SEISMIC CERTIFICATION CERTIFIED SUBCOMPONENTS

Manufacturer: Eaton Corporation
Product Type: UPS
Model Line: 93PM and 93PM-L

Seismic Parameters

$S_{DS} = 1.83g$ for $R_{\mu}=1.3, H_f=3.5$
 $S_{DS} = 1.83g$ for $R_{\mu}=1.0, H_f=1.0$

Building Codes

$I_p=1.5$ CBC 2025

TABLE 7

Table Description: Breakers

Component (Manufacturer)	Model	Description	Notes	UUT
AC Breakers ¹ - Electronic Trip, Frame 2-6 (Eaton)	PDF23*	Frame 2, 3-pole, 100% rated, 4.7 lbs	Not Modular	Interp.
	PDG23*	Frame 2, 3-pole, 4.7 lbs	Not Modular	Interp.
	PDG23G0225B2NL	Frame 2, 3-pole, adjustable 225A 4.5 lbs	Not Modular	20a
	PDF33*	Frame 3, 3-pole, 100% rated, 14.8 lbs	Modular	Interp.
	PDG33*	Frame 3, 3-pole, 14.8 lbs	Modular	Interp.
	PDF43*	Frame 4, 3-pole, 100% rated, 33 lbs	Modular	Interp.
	PDG43*	Frame 4, 3-pole, 33 lbs	Modular	Interp.
	PDC53*	Frame 5, 3-pole, IEC/CCC rated, 48 lbs	Modular	Interp.
	PDF53*	Frame 5, 3-pole, 100% rated, 48 lbs	Modular	Interp.
	PDG53*	Frame 5, 3-pole, 48 lbs	Modular	Interp.
	PDG53P1200E2NM	Frame 5, 3-pole, adjustable 1200A, 48 lbs	Modular	20a
	PDF63*	Frame 6, 3-pole, 100% rated, 102 lbs	Modular	Interp.
	PDG63*	Frame 6, 3-pole, 102 lbs	Modular	Interp.
	PDG63P2000E2NM	Frame 6, 3-pole, adjustable 2000A, 102 lbs	Modular	21
DC Breakers ² - Thermal Trip, Frame 2-3 (Eaton)	PDK23*	Frame 2, 3-pole, 4.7 lbs	Not Modular	Interp.
	PDK23M0175TFFJ	Frame 2, 3-pole, 175A, 4.7 lbs	Not Modular	20b
	PDK33*	Frame 3, 3-pole, 14.8 lbs	Not Modular	Interp.
	PDK33K0250TFAN	Frame 3, 3-pole, 250A, 13.4 lbs	Not Modular	18,19
	PDK33K0500TFAJ	Frame 3, 3-pole, 500A, 14.8 lbs	Not Modular	20b

Notes:

¹Frame 3, 4, 5, and 6 breaker assemblies may be assembled from individual Eaton breaker components at time of incorporation into Eaton products.

²Frame 2 DC Breakers available from 15A to 225A. Frame 3 DC Breakers available from 100A to 600A.

*Breakers listed include part numbers which identify configuration, manufacturer, materials, and breaker rating. Interpolated items have the same manufacturer, materials, and have the same configuration and construction as the tested units.

SPECIAL SEISMIC CERTIFICATION TESTING SUMMARY

UUT	Model	Test Report	Test Lab	Test Date	S _{DS}	R _μ	H _f	I _p
1	93PM 50kVA Capacity UPS (1 UPM)	71589 Rev.A (UUT1)	Wyle Laboratories	4/28/2014	2.39	1.3 1.0	3.5 1.0	1.5
2	93PM 200kVA Capacity UPS (4 UPM)	71589 Rev.A (UUT2)	Wyle Laboratories	4/28/2014	2.39	1.3 1.0	3.5 1.0	1.5
3	NOT USED							
4	93PM 50kVA Capacity UPS (1 UPM)	71589 Rev.A (UUT4)	Wyle Laboratories	4/28/2014	2.39	1.3 1.0	3.5 1.0	1.5
5	93PM 50kVA External Redundant IAC-T	71589 Rev.A (UUT5)	Wyle Laboratories	4/28/2014	1.83	1.3 1.0	3.5 1.0	1.5
6	93PM 200kVA External Capacity IAC-T	71589 Rev.A (UUT6)	Wyle Laboratories	4/28/2014	1.83	1.3 1.0	3.5 1.0	1.5
7	93PM 100kVA IBC-S (line & match)	71589 Rev.A (UUT7)	Wyle Laboratories	4/28/2014	1.83	1.3 1.0	3.5 1.0	1.5
8	93PM 100kVA IBC-L (line & match)	71589 Rev.A (UUT8)	Wyle Laboratories	4/28/2014	1.83	1.3 1.0	3.5 1.0	1.5
9	93PM 100kVA IBC-L (remote w/left sidecar)	71589 Rev.A (UUT9)	Wyle Laboratories	4/28/2014	1.83	1.3 1.0	3.5 1.0	1.5
10	93PM 50kVA IAC-D	71589 Rev.A (UUT10)	Wyle Laboratories	4/28/2014	1.83	1.3 1.0	3.5 1.0	1.5
11	93PM 200kVA IAC-D	71589 Rev.A (UUT11)	Wyle Laboratories	4/28/2014	1.83	1.3 1.0	3.5 1.0	1.5
12	93PM 200kVA Capacity UPS (4 UPM)	174-9243708-000 (UUT12)	AREVA Inc.	6/22/2015	2.50	1.3 1.0	3.5 1.0	1.5
13	93PM 100kVA IBC-L	174-9243708-000 (UUT13)	AREVA Inc.	6/22/2015	2.29	1.3 1.0	3.5 1.0	1.5
14	93PM 200kVA IBC-LHW	JID 16-00773 R1 (UUT14)	Clark Testing	10/27/2016	2.00 3.20	1.3 1.0	3.5 1.0	1.5
15	93PM 400kVA Capacity UPS (8 UPM)	JID 16-00773 R1 (UUT15)	Clark Testing	10/27/2016	2.00 3.20	1.3 1.0	3.5 1.0	1.5
16	93PM-L-60kVA (3 UPM)	JID 19-00067 R3 (UUT16)	Clark Testing	2/25/2019	1.83	1.3 1.0	3.5 1.0	1.5
17	93PM-L-200kVA (10 UPM)	JID 19-00067 R3 (UUT17)	Clark Testing	2/25/2019	1.83	1.3 1.0	3.5 1.0	1.5
18	93PM 432V IBC-SW	JID 24-00216 (UUT2b)	Clark Testing	6/11/2024	2.00 2.50	1.3 1.0	3.5 1.0	1.5
19	93PM 480V IBC-SW	JID 24-00216 (UUT3b)	Clark Testing	6/11/2024	2.00 2.50	1.3 1.0	3.5 1.0	1.5
20a	9PZR-Custom-1 w/Convenience Outlet	JID 24-00216 (UUT4a)	Clark Testing	6/11/2024	2.00 2.50	1.3 1.0	3.5 1.0	1.5
20b	9PZR-Custom-1	JID 24-00216 (UUT4b)	Clark Testing	6/11/2024	2.00 2.50	1.3 1.0	3.5 1.0	1.5



SPECIAL SEISMIC CERTIFICATION TESTING SUMMARY

cal) (0014)

REVIEWED FOR CODE COMPLIANCE

HCAi

OSP-0405

BY: Mohammad Karim

DATE: 11/3/2025

CALIFORNIA BUILDING CODE, 2025

SPECIAL SEISMIC CERTIFICATION UUT SUMMARY

UUT 1

Test Report# 71589 Rev.A (UUT1)

Manufacturer: Eaton Corporation
Model Line: 93PM and 93PM-L
Model Number: 9PA05D0220 A01R1
Description: 93PM 50kVA Capacity UPS (1 UPM)
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}
2.39	1.3	3.5	1.5	3.82	2.57	1.6	0.64
2.39	1.0	1.0					

Dimensions/Weights

Depth (in)	Width (in)	Height (in)	Weight (lbs.)
42	22	74	686

Lowest Natural Frequency (Hz)

Front-Back	Side-Side	Vertical
13.0	10.5	>33.3

Building Codes

CBC 2025

Test Criteria

ICC-ES AC156

Construction/Option Summary

Powder Coated Carbon Steel Framing

UUT Mounting Details:



List of Included Subcomponents

Description	Model #
Power Module	730-B1045
Static Switch	730-D0039
K5 Contactor	DILM17-10 (RDC60)
FD Frame Breaker	HFD3110L
Enclosure	93PM STD UPS Frame
Seismic Mounting Kit	P-103000765

UUT was rigid base mounted using (8) 1/2" Grade 5 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.



UUT 2

Manufacturer: Eaton Corporation
Model Line: 93PM and 93PM-L
Model Number: 9PV20D0029 F20R1
Description: 93PM 200kVA Capacity UPS (4 UPM)
Serial Number: N/A

S_{DS}	R_{μ}	H_f	I_p	$A_{\text{flx-h}}$	$A_{\text{rig-h}}$	$A_{\text{flx-v}}$	$A_{\text{rig-v}}$
2.39	1.3	3.5	1.5	3.82	2.57	1.6	0.64
2.39	1.0	1.0					

Depth (in)	Width (in)	Height (in)	Weight (lbs.)
42	46.7	74	1774

Vertical
32.0

Powder Coated Carbon Steel Framing

Power Module
KD Frame Breaker
KD Frame Breaker
Enclosure
Seismic Mounting Kit

730-B1045
HKD3300W
HKD3400W
Large UPS + Large SC Frame
P-103000842

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



UUT 4

Test Report# 71589 Rev.A (UUT4)

Highest Passed Test Level							
S_{DS}	R_{μ}	H_f	I_p	A_{flx-h}	A_{rig-h}	A_{flx-v}	A_{rig-v}
2.39	1.3	3.5					
2.39	1.0	1.0	1.5	3.82	2.57	1.6	0.64

Lowest Natural Frequency (Hz)		
Front-Back	Side-Side	Vertical
13.0	7.8	>33.3

CBC 2025

ICC-ES AC156

Powder Coated Carbon Steel Framing

List of Included Subcomponents



Model #

Power Module

730-B1045

KD Frame Breaker

730-D0039

K5 Contactor

DILM17-10 (RDC60)

CSB Batteries

PWHR1234W2FR

FD Frame Breaker

HFD3080L

FD Frame Breaker

HFD3110L

FD Frame Breaker

HFD4175ELA02S22

JG Frame Breaker

HJGE3125FAGC

Enclosure

93PM STD UPS + Small
SC Frame

Seismic Mounting Kits

P-103000765 +
P-103000766

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

SPECIAL SEISMIC CERTIFICATION UUT SUMMARY

UUT 5

Test Report# 71589 Rev.A (UUT5)

Manufacturer: Eaton Corporation
Model Line: 93PM and 93PM-L
Model Number: 9PZMA A000000010
Description: 93PM 50kVA External Redundant IAC-T
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}
1.83	1.3	3.5	1.5	2.92	1.97	1.22	0.49
1.83	1.0	1.0					

Dimensions/Weights

Depth (in)	Width (in)	Height (in)	Weight (lbs.)
42	19.7	74	404

Lowest Natural Frequency (Hz)

Front-Back	Side-Side	Vertical
9.0	7.9	24.0

Building Codes

CBC 2025

Test Criteria

ICC-ES AC156

Construction/Option Summary

Powder Coated Carbon Steel Framing

UUT Mounting Details:



List of Included Subcomponents

Description

Model

Eaton Breaker

FD3080

Enclosure

93PM Small IAC-T/IBC-S
Frame

Seismic Mounting Kit

P-103000843

UUT was rigid base mounted using (8) 1/2" Grade 5 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.

SPECIAL SEISMIC CERTIFICATION UUT SUMMARY

UUT 6

Test Report# 71589 Rev.A (UUT6)

Manufacturer: Eaton Corporation
Model Line: 93PM and 93PM-L
Model Number: 9PZMD F200000010
Description: 93PM 200kVA External Capacity IAC-T
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}
1.83	1.3	3.5	1.5	2.92	1.97	1.22	0.49
1.83	1.0	1.0					

Dimensions/Weights

Depth (in)	Width (in)	Height (in)	Weight (lbs.)
42	19.7	74	726

Lowest Natural Frequency (Hz)

Front-Back	Side-Side	Vertical
9.5	5.5	>33.3

Building Codes

CBC 2025

Test Criteria

ICC-ES AC156

Construction/Option Summary

Powder Coated Carbon Steel Framing

UUT Mounting Details:



List of Included Subcomponents

Description	Model #
LG Frame Breaker	HLGE3300FAW
NG Frame Breaker	HNGS312032MC
Enclosure	93PM Small IAC-T/IBC-S Frame
Seismic Mounting Kit	P-103000843

UUT was rigid base mounted using (8) 1/2" Grade 5 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.

SPECIAL SEISMIC CERTIFICATION UUT SUMMARY

UUT 7

Test Report# 71589 Rev.A (UUT7)

Manufacturer: Eaton Corporation
Model Line: 93PM and 93PM-L
Model Number: 9PZBBAY08 013010
Description: 93PM 100kVA IBC-S (line & match)
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}
1.83	1.3	3.5	1.5	2.92	1.97	1.22	0.49
1.83	1.0	1.0					

Dimensions/Weights

Depth (in)	Width (in)	Height (in)	Weight (lbs.)
42	19.7	74	2246

Lowest Natural Frequency (Hz)

Front-Back	Side-Side	Vertical
10.0	5.0	22.0

Building Codes

CBC 2025

Test Criteria

ICC-ES AC156

Construction/Option Summary

Powder Coated Carbon Steel Framing

UUT Mounting Details:

List of Included Subcomponents



Description

Model

G.S. YUASA Batteries

NPX-80RFR

KD Frame Breaker

HKDDC3300WA07S49

Enclosure

93PM Small IAC-T/IBC-S
Frame

Seismic Mounting Kit

P-103000843

UUT was rigid base mounted using (8) 1/2" Grade 5 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.

SPECIAL SEISMIC CERTIFICATION UUT SUMMARY

UUT 8

Test Report# 71589 Rev.A (UUT8)

Manufacturer: Eaton Corporation
Model Line: 93PM and 93PM-L
Model Number: 9PZABAE50 110010
Description: 93PM 100kVA IBC-L (line & match)
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}
1.83	1.3	3.5	1.5	2.92	1.97	1.22	0.49
1.83	1.0	1.0					

Dimensions/Weights

Depth (in)	Width (in)	Height (in)	Weight (lbs.)
42	32.2	74	4745

Lowest Natural Frequency (Hz)

Front-Back	Side-Side	Vertical
10.0	4.7	21.0

Building Codes

CBC 2025

Test Criteria

ICC-ES AC156

Construction/Option Summary

Powder Coated Carbon Steel Framing

UUT Mounting Details:



List of Included Subcomponents

Description	Model #
CSB Batteries	PWHR12500W4FR
KD Frame Breaker	HKDC3300WA07S49
Enclosure	93PM IBC-L Frame
Seismic Mounting Kit	P-103000768

UUT was rigid base mounted using (8) 1/2" Grade 5 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.



UUT 9

Test Report# 71589 Rev.A (UUT9)

Highest Passed Test Level							
S _{DS}	R _μ	H _f	I _p	A _{flx-h}	A _{rig-h}	A _{flx-v}	A _{rig-v}
1.83	1.3	3.5					
1.83	1.0	1.0	1.5	2.92	1.97	1.22	0.49

Lowest Natural Frequency (Hz)		
Front-Back	Side-Side	Vertical
9.5	5.7	22.0

UUT Mounting Details: List of Included Subcomponents

[illegible]

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

SPECIAL SEISMIC CERTIFICATION UUT SUMMARY

UUT 10

Test Report# 71589 Rev.A (UUT10)

Manufacturer: Eaton Corporation
Model Line: 93PM and 93PM-L
Model Number: 9PZD1 H000000011
Description: 93PM 50kVA IAC-D
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}
1.83	1.3	3.5	1.5	2.92	1.97	1.22	0.49
1.83	1.0	1.0					

Dimensions/Weights

Depth (in)	Width (in)	Height (in)	Weight (lbs.)
42	31.3	74	1105

Lowest Natural Frequency (Hz)

Front-Back	Side-Side	Vertical
11.0	7.9	22.0

Building Codes

CBC 2025

Test Criteria

ICC-ES AC156

Construction/Option Summary

Powder Coated Carbon Steel Framing

UUT Mounting Details:



List of Included Subcomponents

Description	Model #
Transformer	WPV50012
FD Frame Breaker	HFD3080L
KD Frame Breaker	HKD3175W
Enclosure	93PM IAC-D/Large IAC-T Frame
Seismic Mounting Kit	P-103001194

UUT was rigid base mounted using (8) 1/2" Grade 5 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.

SPECIAL SEISMIC CERTIFICATION UUT SUMMARY

UUT 11

Test Report# 71589 Rev.A (UUT11)

Manufacturer: Eaton Corporation
Model Line: 93PM and 93PM-L
Model Number: 9PZG4 SBC0001011
Description: 93PM 200kVA IAC-D
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}
1.83	1.3	3.5	1.5	2.92	1.97	1.22	0.49
1.83	1.0	1.0					

Dimensions/Weights

Depth (in)	Width (in)	Height (in)	Weight (lbs.)
42	31.3	74	2165

Lowest Natural Frequency (Hz)

Front-Back	Side-Side	Vertical
9.5	8.0	22.0

Building Codes

CBC 2025

Test Criteria

ICC-ES AC156

Construction/Option Summary

Powder Coated Carbon Steel Framing

UUT Mounting Details:



List of Included Subcomponents

Description	Model #
225A Panelboard	122950146
400A Panelboard	122950147
Transformer	WPN19132
FD Frame Breaker	FD3225
KD Frame Breaker	KD3400F
Enclosure	93PM IAC-D/Large IAC-T Frame
Seismic Mounting Kit	P-103001193

UUT was rigid base mounted using (8) 1/2" Grade 5 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.

SPECIAL SEISMIC CERTIFICATION UUT SUMMARY

UUT 12

Test Report# 174-9243708-000
(UUT12)

Manufacturer: Eaton Corporation
Model Line: 93PM and 93PM-L
Model Number: 9PV20C0029 F20R2
Description: 93PM 200kVA Capacity UPS (4 UPM)
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}
2.50	1.3	3.5	1.5	4.00	2.69	1.67	0.67
2.50	1.0	1.0					

Dimensions/Weights

Depth (in)	Width (in)	Height (in)	Weight (lbs.)
42	46.7	74	1795

Lowest Natural Frequency (Hz)

Front-Back	Side-Side	Vertical
6.4	5.2	6.2

Building Codes

CBC 2025

Test Criteria

ICC-ES AC156

Construction/Option Summary

Powder Coated Carbon Steel Framing

UUT Mounting Details:



List of Included Subcomponents

Description	Model #
Power Module	730-D0057
Static Switch	730-D0021
K5 Contactor	DILM250/22 (RDC48)
KD Frame Breaker	HKD3300W
KD Frame Breaker	HKD3400W
Enclosure	93PM Large UPS + Large SC Frame
Seismic Mounting Kits	P-103000842 + P-103000844

UUT was rigid base mounted using (12) 1/2" Grade 5 bolts torqued to 63 ft/lbs.

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

SPECIAL SEISMIC CERTIFICATION UUT SUMMARY

UUT 13

Test Report# 174-9243708-000
(UUT13)

Manufacturer: Eaton Corporation
Model Line: 93PM and 93PM-L
Model Number: 9PZABAE28 010010
Description: 93PM 100kVA IBC-L
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}
2.29	1.3	3.5	1.5	3.66	2.46	1.53	0.61
2.29	1.0	1.0					

Dimensions/Weights

Depth (in)	Width (in)	Height (in)	Weight (lbs.)
42	32.2	74	3185

Lowest Natural Frequency (Hz)

Front-Back	Side-Side	Vertical
14.6	5.4	>33.3

Building Codes

CBC 2025

Test Criteria

ICC-ES AC156

Construction/Option Summary

Powder Coated Carbon Steel Framing

UUT Mounting Details:



List of Included Subcomponents

Description	Model #
CSB Batteries	PWHR12280W4FR
ENERSYS Batteries	12HX300
ENERSYS Batteries	12HX500
C&D Dynasty Batteries	UPS12-300MR
C&D Dynasty Batteries	UPS12-490MR
KD Frame Breaker	HKDDC3300WA07S49
Enclosure	93PM IBC-L Frame
Seismic Mounting Kit	P-103000768

UUT was rigid base mounted using (8) 1/2" Grade 5 bolts torqued to 63 ft/lbs.

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



UUT 14

Manufacturer: Eaton Corporation
Model Line: 93PM and 93PM-L
Model Number: 9PZUDBN54 010010
Description: 93PM 200kVA IBC-LHW
Serial Number: N/A

S_{DS}	R_{μ}	H_f	I_p	$A_{\text{flx-h}}$	$A_{\text{rig-h}}$	$A_{\text{flx-v}}$	$A_{\text{rig-v}}$
2.00	1.3	3.5	1.5	3.20	2.15	2.13	0.85
3.20	1.0	1.0					

Depth (in)	Width (in)	Height (in)	Weight (lbs.)
42	34.2	74	5082

Front-Back	Side-Side	Vertical
10.6	9.9	>33.3

CBC 2025

ICC-ES AC156

Powder Coated Carbon Steel Framing

List of Included Subcomponents



Model

NSB12540

93PM IBC-LHW Line & Match

P-103002072

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



UUT 15

Manufacturer: Eaton Corporation
Model Line: 93PM and 93PM-L
Model Number: 9640D0029 A00R2
Description: 93PM 400kVA Capacity UPS (8 UPM)
Serial Number: N/A

S_{DS}	R_{μ}	H_f	I_p	$A_{\text{flx-h}}$	$A_{\text{rig-h}}$	$A_{\text{flx-v}}$	$A_{\text{rig-v}}$
2.00	1.3	3.5	1.5	3.20	2.15	2.13	0.85
3.20	1.0	1.0					

Depth (in)	Width (in)	Height (in)	Weight (lbs.)
42	63.9	74	2628

Front-Back	Side-Side	Vertical
20.6	12.9	>33.3

CBC 2025

ICC-ES AC156

Powder Coated Carbon Steel Framing

List of Included Subcomponents



Model

Enclosure

93PM 400kVA capacity
UPS (8UPM)

Seismic Mounting Kit

P-103001777

UUT was rigid base mounted using (16) 1/2" Grade 5 bolts torqued to 55 ft/lbs.

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

SPECIAL SEISMIC CERTIFICATION UUT SUMMARY

UUT 16

Test Report# JID 19-00067 R3
(UUT16)

Manufacturer: Eaton Corporation
Model Line: 93PM and 93PM-L
Model Number: 9GC312A700 A02R0
Description: 93PM-L-60kVA (3 UPM)
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}
1.83	1.3	3.5	1.5	2.92	1.97	1.22	0.49
1.83	1.0	1.0					

Dimensions/Weights

Depth (in)	Width (in)	Height (in)	Weight (lbs.)
42	22	74	1604

Lowest Natural Frequency (Hz)

Front-Back	Side-Side	Vertical
10.5	6.6	12.2

Building Codes

CBC 2025

Test Criteria

ICC-ES AC156

Construction/Option Summary

Powder Coated Carbon Steel Framing

UUT Mounting Details:



List of Included Subcomponents

Description	Model #
Power Module	730-05211
Static Switch	730-05213
CSB Batteries	HR1227WFR
Enclosure	93PM-L 60kVA Frame
Seismic Mounting Kit	P-103000765

UUT was rigid base mounted using (8) 1/2" Grade 5 bolts torqued to 55 ft/lbs.

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

SPECIAL SEISMIC CERTIFICATION UUT SUMMARY

UUT 17

Test Report# JID 19-00067 R3
(UUT17)

Manufacturer: Eaton Corporation
Model Line: 93PM and 93PM-L
Model Number: 9GK040A000 A02R0
Description: 93PM-L-200kVA (10 UPM)
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}
1.83	1.3	3.5	1.5	2.92	1.97	1.22	0.49
1.83	1.0	1.0					

Dimensions/Weights

Depth (in)	Width (in)	Height (in)	Weight (lbs.)
42	43.4	74	1722

Lowest Natural Frequency (Hz)

Front-Back	Side-Side	Vertical
22.4	19.2	>33.3

Building Codes

CBC 2025

Test Criteria

ICC-ES AC156

Construction/Option Summary

Powder Coated Carbon Steel Framing

UUT Mounting Details:



List of Included Subcomponents

Description	Model #
Power Module	730-05211
Static Switch	730-05214
Enclosure	93PM-L 200kVA Frame
Seismic Mounting Kit	P-103003059

UUT was rigid base mounted using (8) 1/2" Grade 5 bolts torqued to 55 ft/lbs.

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

SPECIAL SEISMIC CERTIFICATION UUT SUMMARY

UUT 18

Test Report# JID 24-00216
(UUT2b)

Manufacturer: Eaton Corporation
Model Line: 93PM and 93PM-L
Model Number: 9PZWBAE20010010
Description: 93PM 432V IBC-SW
Serial Number: FT082VXX09

Highest Passed Test Level

S_{DS}	R_{μ}	H_f	I_p	A_{flx-h}	A_{rig-h}	A_{flx-v}	A_{rig-v}
2.00	1.3	3.5	1.5	3.20	2.15	1.67	0.67
2.50	1.0	1.0					

Dimensions/Weights

Depth (in)	Width (in)	Height (in)	Weight (lbs.)
42	16.9	74	1997

Lowest Natural Frequency (Hz)

Front-Back	Side-Side	Vertical
12.5	10.0	>33.3

Building Codes

CBC 2025

Test Criteria

ICC-ES AC156

Construction/Option Summary

Powder Coated Carbon Steel Framing

UUT Mounting Details:



List of Included Subcomponents

Description	Model #
CSB Batteries	PWHR12200W4FR
Circuit Breaker	PDK33K0250TFAN
Enclosure	93PM IBC-SW
Seismic Mounting Kit	P-103005194

UUT was rigid base mounted using (8) 1/2" Grade 5 bolts torqued to 60 ft/lbs.

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

SPECIAL SEISMIC CERTIFICATION UUT SUMMARY

UUT 19

Test Report# JID 24-00216
(UUT3b)

Manufacturer: Eaton Corporation
Model Line: 93PM and 93PM-L
Model Number: 9PZWBBE20010210
Description: 93PM 480V IBC-SW
Serial Number: FT082VXX11

Highest Passed Test Level

S_{DS}	R_{μ}	H_f	I_p	A_{flx-h}	A_{rig-h}	A_{flx-v}	A_{rig-v}
2.00	1.3	3.5	1.5	3.20	2.15	1.67	0.67
2.50	1.0	1.0					

Dimensions/Weights

Depth (in)	Width (in)	Height (in)	Weight (lbs.)
42	16.9	74	2141

Lowest Natural Frequency (Hz)

Front-Back	Side-Side	Vertical
12.9	9.1	>33.3

Building Codes

CBC 2025

Test Criteria

ICC-ES AC156

Construction/Option Summary

Powder Coated Carbon Steel Framing

UUT Mounting Details:



List of Included Subcomponents

Description	Model #
CSB Batteries	PWHR12200W4FR
Circuit Breaker	PDK33K0250TFAN
Enclosure	93PM IBC-SW
Seismic Mounting Kit	P-103005194

UUT was rigid base mounted using (8) 1/2" Grade 5 bolts torqued to 60 ft/lbs.

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



UUT 20a

Manufacturer: Eaton Corporation
Model Line: 93PM and 93PM-L
Model Number: 9PZR-Custom-1 w/convenience outlet
Description: 9PZR-Custom-1 w/Convenience Outlet
Serial Number: N/A

S_{DS}	R_{μ}	H_f	I_p	$A_{\text{flx-h}}$	$A_{\text{rig-h}}$	$A_{\text{flx-v}}$	$A_{\text{rig-v}}$
2.00	1.3	3.5	1.5	3.20	2.15	1.67	0.67
2.50	1.0	1.0					

Depth (in)	Width (in)	Height (in)	Weight (lbs.)
42	31.5	73.5	733

Front-Back	Side-Side	Vertical
16.1	17.5	>33.3

CBC 2025

ICC-ES AC156

Powder Coated Carbon Steel Framing

List of Included Subcomponents



Model

Kirk Key System	P-116000097
Circuit Breaker	PDK33K0400TFAN
Circuit Breaker	PDG43M0600TFAN
Circuit Breaker	PDG23G0225B2NL
Circuit Breaker	PDG53P1200E2NM
Gliserise Transformer	149502123
Transformer	C0025E2A
Enclosure	93PM-L IAC-B
Seismic Mounting Kit	P-103000767

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

SPECIAL SEISMIC CERTIFICATION UUT SUMMARY

UUT 20b

Test Report# JID 24-00216
(UUT4b)

Manufacturer: Eaton Corporation
Model Line: 93PM and 93PM-L
Model Number: 9PZR-Custom-1
Description: 9PZR-Custom-1
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}
2.00	1.3	3.5	1.5	3.20	2.15	1.67	0.67
2.50	1.0	1.0					

Dimensions/Weights

Depth (in)	Width (in)	Height (in)	Weight (lbs.)
42	31.5	73.5	664

Lowest Natural Frequency (Hz)

Front-Back	Side-Side	Vertical
15.7	14.5	>33.3

Building Codes

CBC 2025

Test Criteria

ICC-ES AC156

Construction/Option Summary

Powder Coated Carbon Steel Framing

UUT Mounting Details:



List of Included Subcomponents

Description	Model #
Circuit Breaker	PDG13G0125TFFJ
Circuit Breaker	PDG43M0600TFAN
Circuit Breaker	PDK23M0175TFFJ
Circuit Breaker	PDK33K0500TFA
Enclosure	93PM-L IAC-B
Seismic Mounting Kit	P-103000767

UUT was rigid base mounted using (8) 1/2" Grade 5 bolts torqued to 60 ft/lbs.

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



UUT 21

Manufacturer: Eaton Corporation
Model Line: 93PM and 93PM-L
Model Number: 9PZR-Custom-2
Description: 9PZR-Custom-2
Serial Number: N/A

S_{DS}	R_{μ}	H_f	I_p	$A_{\text{flx-h}}$	$A_{\text{rig-h}}$	$A_{\text{flx-v}}$	$A_{\text{rig-v}}$
2.00	1.3	3.5	1.5	3.20	2.15	1.67	0.67
2.50	1.0	1.0					

Depth (in)	Width (in)	Height (in)	Weight (lbs.)
42	31.5	73.5	694

Front-Back	Side-Side	Vertical
14.9	17.5	24.7

CBC 2025

ICC-ES AC156

Powder Coated Carbon Steel Framing

List of Included Subcomponents



Model

PDG63P2000E2NM

93PM-L IAC-B

P-103000767

SPECIAL SEISMIC CERTIFICATION UUT SUMMARY

UUT 22

Test Report# TR251742-01-R0
(UUT1)

Manufacturer: Eaton Corporation
Model Line: 93PM and 93PM-L
Model Number: 9AA105C300 A00R0
Description: 50kW Gen2 UPS (w/internal batteries)
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}
1.83	1.3	3.5	1.5	2.92	1.97	1.22	0.49
1.83	1.0	1.0					

Dimensions/Weights

Depth (in)	Width (in)	Height (in)	Weight (lbs.)
42	22	74	2075

Lowest Natural Frequency (Hz)

Front-Back	Side-Side	Vertical
7.6	5.4	24.7

Building Codes

CBC 2025

Test Criteria

ICC-ES AC156

Construction/Option Summary

Powder Coated Carbon Steel Framing

UUT Mounting Details:



List of Included Subcomponents

Description	Model #
Power Module	733-82116
Static Switch	733-82083
Enclosure	93PM Gen 2 STD UPS Frame
Seismic Mounting Kit	P-103005445

UUT was rigid base mounted using (8) 1/2" Grade 5 bolts torqued to 65 ft/lbs. Mounting bracket to enclosure fasteners were increased to (8) M10 Grade 10.9

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

SPECIAL SEISMIC CERTIFICATION UUT SUMMARY

UUT 23

Test Report# TR251742-01-R0
(UUT2)

Manufacturer: Eaton Corporation
Model Line: 93PM and 93PM-L
Model Number: 9AF525C000 A00R0
Description: 250kW Gen2 UPS
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}
1.83	1.3	3.5	1.5	2.92	1.97	1.22	0.49
1.83	1.0	1.0					

Dimensions/Weights

Depth (in)	Width (in)	Height (in)	Weight (lbs.)
42	22	74	1230

Lowest Natural Frequency (Hz)

Front-Back	Side-Side	Vertical
18.4	7.3	>33.3

Building Codes

CBC 2025

Test Criteria

ICC-ES AC156

Construction/Option Summary

Powder Coated Carbon Steel Framing

UUT Mounting Details:



List of Included Subcomponents

Description

Model

Power Module

733-82116

Static Switch

733-82083

Enclosure

93PM Gen 2 STD UPS Frame

Seismic Mounting Kit

P-103005445

UUT was rigid base mounted using (8) 1/2" Grade 5 bolts torqued to 65 ft/lbs.

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

SPECIAL SEISMIC CERTIFICATION UUT SUMMARY

UUT 24

Test Report# TR251742-01-R0
(UUT3)

Manufacturer: Eaton Corporation
Model Line: 93PM and 93PM-L
Model Number: 9AA105C000 A00R0
Description: 50kW Gen2 UPS
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}
1.83	1.3	3.5	1.5	2.92	1.97	1.22	0.49
1.83	1.0	1.0					

Dimensions/Weights

Depth (in)	Width (in)	Height (in)	Weight (lbs.)
42	22	74	855

Lowest Natural Frequency (Hz)

Front-Back	Side-Side	Vertical
19.3	10.5	>33.3

Building Codes

CBC 2025

Test Criteria

ICC-ES AC156

Construction/Option Summary

Powder Coated Carbon Steel Framing

UUT Mounting Details:



List of Included Subcomponents

Description	Model #
Power Module	733-82116
Static Switch	733-82081
CSB Batteries	PWHR1234W2FR
Enclosure	93PM Gen 2 STD UPS Frame
Seismic Mounting Kit	P-103005445

UUT was rigid base mounted using (8) 1/2" Grade 5 bolts torqued to 65 ft/lbs.

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

SPECIAL SEISMIC CERTIFICATION UUT SUMMARY

UUT 25

Test Report# TR251742-01-R0
(UUT4)

Manufacturer: Eaton Corporation
Model Line: 93PM and 93PM-L
Model Number: 9AF525C000 E20R0
Description: 250kW Gen2 UPS (w/18" sidecar)
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}
1.83	1.3	3.5	1.5	2.92	1.97	1.22	0.49
1.83	1.0	1.0					

Dimensions/Weights

Depth (in)	Width (in)	Height (in)	Weight (lbs.)
42	30	74	1465

Lowest Natural Frequency (Hz)

Front-Back	Side-Side	Vertical
16.6	8.1	>33.3

Building Codes

CBC 2025

Test Criteria

ICC-ES AC156

Construction/Option Summary

Powder Coated Carbon Steel Framing

UUT Mounting Details:



List of Included Subcomponents

Description

Model

Power Module

733-82116

Static Switch

733-82083

Enclosure

93PM Gen2 STD UPS +
Small SC Frame

Seismic Mounting Kits

P-103005445 +
P-103000766

UUT was rigid base mounted using (12) 1/2" Grade 5 bolts torqued to 65 ft/lbs.

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