



## Why Eaton?

Eaton is dedicated to ensuring that reliable, efficient and safe power is available when it's needed most. With unparalleled knowledge of electrical power management across industries, experts at Eaton deliver customized, integrated solutions to solve our customers' most critical challenges.

Our focus is on delivering the right solution for the application. But we offer more than just innovative products. We also provide an unwavering commitment to personal support, that makes customer success a top priority.

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Eaton's range of accessories for 3ph UPS systems provides flexible installation options that expedite deployment and save valuable space. The aesthetically designed accessories enable coordinated solutions that enhance both safety and reliability while reducing installation time and total cost. They are designed, manufactured and tested according to relevant standards. Eaton accessory offering consists of both general and product line specific options.



Visit www.eaton.com or contact local sales for more information.

### Eaton battery cabinets

#### **Quality and safety**

All Eaton battery cabinet solutions have been designed with long experience, specifically to be used with Eaton 3ph UPS. Quality is ensured by utilizing standardized processes, testing and careful consideration of details, such as customer interface, proper cooling, air circulation and sizing protective equipment. The Eaton battery cabinets are designed in according to UPS standard IEC 62040, thus making it safe to use. Cabinets are always available at least in an IP20 enclosure to protect personnel nearby them. Available up to IP54 protection, the Eaton battery cabinet solutions are also appropriate for preserving the batteries from external sources.

#### Easy to operate

Eaton battery cabinets come with a user guide for easy installation and operation. Most cabinet types are equipped with wheels for easy offloading and positioning the cabinets. For the marine use, there are lifting equipment available for easier hailing of the cabinets at the yard.

#### Lower installation cost

Cabinets with batteries pre-installed by Eaton, ensure rapid deployment of cabinets, thus reducing installation time and cost at site significantly.

#### **Serviceability**

Eaton battery cabinets are fully front-accessible. They come with either battery slide out trays or removable battery torpedoes for easy maintenance of the batteries. A DC-rated battery circuit breaker provides protection and enables isolation for maintenance.

#### Look and feel

Eaton battery cabinets form a lineup and match design with Eaton UPS giving a uniform appearance and minimizing footprint.

Contact local Eaton sales for support with runtimes and battery cabinet selection.

Battery cabinet family	Features	Width (mm)	Heigth (mm)	Depth (mm)	Weight (kg)	Remarks
EBC-A	Battery cabinet for 8-20 kVA power range.	335	1300	750	85	empty
	Cabinet equipped with 63 A breaker.				349	with max batteries
	Max battery quantity 3x32 pcs					
	Cabinet is designed to be used with Eaton 91PS/93PS/93E UPSs up to 20 kVA					
EBC-B	Battery cabinet for 8-40 kVA power range.	761	1750	750	152	empty
	Cabinet equipped with 63 A or 160 A breaker.				742	with max batteries
_	Max battery quantity 32 pcs					
T.	Cabinet is designed to be used with Eaton 91PS/93PS/93E UPSs up to 40 kVA					
EBC-C	Battery cabinet for 30-100 kVA power range. a)	585	1876	914	169	empty
	Cabinet equipped with 200 A breaker.				1061	with max batteries. Varies based on used battery type
_	Max battery quantity 40 pcs					
	Cabinet is designed to be used with Eaton 91PS/93PS/93PM/93E UPSs up to 100 kVA					
EBC-E	Battery cabinet for 30-200 kVA power range. a)	1125	1890	804	412	empty
	Cabinet equipped with 400 A breaker.				2116	with max batteries. Varies based on used battery type
100	Max battery quantity 40 pcs					
	Cabinet is designed to be used with Eaton 93PM/9395P/93E UPS: up to 200 kVA	S				

Battery family	cabinet	Features	Width (mm)	Heigth (mm)	Depth (mm)	Weight (kg)	Remarks
EBC-F		Industrial / Marine cabinet for up to 30-100 kVA power range a)	625 c)	1978 c)	937 c)	226	empty
		Cabinet equipped with 200 A breaker				970	with max batteries. Varies based on used battery type and cabinet options
		Max battery quantity 40 pcs					
		Cabinet is designed to be used with Eaton 9PHD UPS products up to 100 kVA					
		Optional lifting lugs available					
		Optional air outlet connector to external ventilation system available					
		Available with vibration damper brackets or wheels					
		Available as IP23/33/54					
EBC-G		Battery cabinet for 30-200 kVA power range.	1118 c)	1978 c)	1091 c)	750	empty
		Cabinet equipped with 400 A breaker				2560	with max batteries. Varies based on used battery type and cabinet options
		Max battery quantity 40 pcs					
	0	Cabinet is designed to be used with Eaton 9PHD UPS products up to 200 kVA					
	a longer	Optional lifting lugs available b)					
		Optional air outlet connector to external ventilation system available					
		Available with vibration damper brackets or wheels					
		Optional seismic support for models with wheels					
		Available as IP23/33/54					
EBC-I		Marine cabinet for up to 8-20 kVA power range	356	1500	875	100	empty
		Cabinet equipped with 63 A breaker				350	with max batteries. Varies based on used battery type and cabinet options
	100	Max battery quantity 3x32 pcs					
	***	Cabinet is designed to be used with Eaton 93PS Marine UPS products up to 20 kVA					
		IP23 protection					
EBC-J		Battery cabinet for 8-60 kVA power range.	535	1745	971	175	empty
		Cabinet equipped with 200 A breaker				900	with max batteries. Varies based on used battery type and cabinet options
		Max battery quantity 2x36 pcs					
		Cabinet is designed to be used with Eaton 93PS and 9PHD Marin UPS products up to 100 kVA	10				
		IP22 protection					<u> </u>

a) Multiple cabinets can be used for higher powers
b) Lifting lugs cannot be used if batteries inside
c) Exact dimensions depends on fixation type

# Pre-assembled battery strings

Pre-assembled battery strings reduce time of installing and replacing batteries. Whether you are a distributor storing UPS's without batteries or a contractor installing a UPS long before startup you might want to install the batteries just before commissioning to avoid unnecessary aging.



Part number	Description	KIT details
P-103002001	KIT 93PS-20 BATTERY ACCESSORIES (1 STRING)	Battery trays and interconnecting cables for one string of batteries - no batteries (10/15/20 kW frames). Applicable for Eaton 91PS/93PS.
P-103003010-001	KIT 9XPS-20 BATTERY STRING 9AH	Battery trays, interconnecting cables and 3-5y batteries for one string (10/15/20 kW frames). Applicable for Eaton 91PS/93PS/93PS Marine/9x55.
P-103003010-002	KIT 9XPS-20 BATTERY STRING 9AH LL	Battery trays, interconnecting cables and 6-9y batteries for one string (10/15/20 kW frames). Applicable for Eaton 91PS/93PS/93PS Marine/9x55.
P-103002002	KIT 93PS-40 BATTERY ACCESSORIES (1 STRING)	Battery trays and interconnecting cables for one string of batteries - no batteries (30/40 kW frame). Applicable for Eaton 91PS/93PS.
P-103003010-003	KIT 9XPS-40 BATTERY STRING 9AH	Battery trays, interconnecting cables and 3-5y batteries for one string (30/40 kW frame). Applicable for Eaton 91PS/93PS.
P-103003010-004	KIT 9XPS-40 BATTERY STRING 9AH LL	Battery trays, interconnecting cables and 6-9y batteries for one string (30/40 kW frame). Applicable for Eaton 91PS/93PS.
P-103003010-005	KIT 93PM-50 BATTERY STRING 9AH	Battery trays, interconnecting cables and 3-5y batteries for one string. Available for Eaton 93PM.
P-103003010-006	KIT 93PM-50 BATTERY STRING 9AH LL	Battery trays, interconnecting cables and 6-9y batteries for one string. Available for Eaton 93PM.

### Lithium Ion solutions

Lithium Ion batteries are a good alternative to traditional VRLA battery technology, bringing improvements in product foot print, weight, design life, temperature tolerance and capability to support cyclical load. In addition Lithium Ion batteries always comes with the possibility to remotely monitor battery level information.

With these benefits the total cost of ownership is often lower compared to VRLA batteries. Additionally, Lithium Ion batteries can allow using UPS and batteries in applications and environments, where VRLA batteries simply didn't survive.

Contact local Eaton sales for support with Lithium Ion battery selection.



## Eaton supercapacitor cabinets

Eaton supercapacitor cabinets for 3ph UPSs introduce a very low maintenance solution for short runtime (<1 min) applications. Supercapacitor provides a solution where batteries cannot work - in hot environment, places with no possibility for hydrogen removal, areas requiring weight limitation or sites with no easy access for periodic replacement of batteries. They are easily scalable by adding an extra string in parallel with old capacitors.

#### Features:

- · High efficiency low operational costs
- Fast recharge (5-6 times to runtime)
- · High ambient temperature range
- · Life time up to 20 years
- Suitable for cyclic operation
- Internal fuses provides protection
- · Battery circuit breaker enables isolation for maintenance
- · Daisy-chain cabinets for extended runtime





Eaton supercapacitors and a supercapacitor module



**Eaton Supercapacitor cabinet** 

Part number	Description	KIT details	Width (mm)	Height (mm)	Depth (mm)
P-105000092-001	ESC-A-0x20-EMPTY-BB-400A-24V	Empty supercapacitor cabinet with 24 V shunt trip coil. Can be equipped with 2 strings of supercapacitors	600	2065	1040
P-105000092-002	ESC-A-1x10-XLM62R1137A-R-BB-400A-24V	Supercapacitor cabinet with 1 string of supercapacitors and 24 V shunt trip coil.	600	2065	1040
P-105000092-003	ESC-A-2x10-XLM62R1137A-R-BB-400A-24V	Supercapacitor cabinet with 2 string of supercapacitors and 24 V shunt trip coil.	600	2065	1040
P-105000092-004	ESC-A-0x20-EMPTY-BB-400A-48V	Empty supercapacitor cabinet with 48 V shunt trip coil. Can be equipped with 2 strings of supercapacitors	600	2065	1040
P-105000092-005	ESC-A-1x10-XLM62R1137A-R-BB-400A-48V	Supercapacitor cabinet with 1 string of supercapacitors and 48 V shunt trip coil.	600	2065	1040
P-105000092-006	ESC-A-2x10-XLM62R1137A-R-BB-400A-48V	Supercapacitor cabinet with 2 string of supercapacitors and 48 V shunt trip coil.	600	2065	1040

Contact local Eaton sales for support with runtimes and battery cabinet selection.

## Eaton battery breaker kits

Eaton battery breaker kits includes a wide range of breakers to be used with external UPS battery solutions like racks and DC switchgear.

#### Features:

- Kits include a breaker, a shunt trip coil for remote tripping and AUX contact for remote monitoring. Some larger models also include the extension handle and additional terminals for bigger cables
- 24 V Shunt trip coil is for the Eaton 93PS and 93PM UPS families, 48 V for Power Xpert 9395P products

Contact local Eaton sales for support with selecting breakers.







Eaton Circuit-breaker, 3 poles, NZMN3 frame

Part number	Description	KIT details
String breakers for single	e battery strings (Breakers can also be used as main	DC breakers for battery systems)
P-122000254	KIT EXT BATT MCCB 80 A 24 V ST	Breaker, 24 V shunt trip coil with AUX contact, double contact element
P-122000255	KIT EXT BATT MCCB 160 A 24 V ST	Breaker, 24 V shunt trip coil with AUX contact, double contact element
P-122000256	KIT EXT BATT MCCB 200 A 24 V ST	Breaker, 24 V shunt trip coil with AUX contact, double contact element
P-122000241	KIT EXT BATT MCCB 400 A 24 V ST	Breaker, 24 V shunt trip coil with AUX contact, double contact element
P-122000242	KIT EXT BATT MCCB 400 A 48 V ST	Breaker, 48 V shunt trip coil with AUX contact, double contact element

Part number	Description	KIT details
Main DC breakers for ba	ttery systems	
P-122000184	KIT EXT BATT MCCB 500 A 24 V ST	Breaker, 24 V shunt trip coilwith AUX contact, double contact element
P-122000180	KIT EXT BATT MCCB 700 A 24 V ST	Breaker, 24 V shunt trip coil with AUX contact, additional 95-200 mm^2 terminals extension handle for the breaker
P-122000257	KIT EXT BATT MCCB 700 A 48 V ST	Breaker, 48 V shunt trip coil with AUX contact, additional 95-200 mm^2 terminals extension handle for the breaker
P-122000258	KIT EXT BATT MCCB 800 A 48 V ST	Breaker, 48 V shunt trip coil with AUX contact, additional 95-200 mm^2 terminals extension handle for the breaker
P-122000269	KIT EXT BATT MCCB 1250 A 48 V ST	Breaker, 48 V shunt trip coil with AUX contact, additional terminals for M12 bolt, extension handle for the breaker, interpole barriers
P-122000270	KIT EXT BATT MCCB 1600 A 48 V ST	Breaker, 48 V shunt trip coil with AUX contact, additional terminals for M12 bolt, extension handle for the breaker, interpole barriers

# UPS battery switchgear (UBS)

Eaton UPS Battery Switchgear family consists of single breaker with casing and multi breaker solutions with main DC breaker and dedicated battery string breakers.

#### **Features:**

- All breakers in the family, include a shunt trip coil (24 VDC) and auxiliary contacts for remote tripping and monitoring
- Models with multiple breakers include wall mounting kit which enables cable routing behind the casing
- Single breaker models up to 500 A have a plastic casing. Single 700 A and models with multiple breakers come with metal casing
- All UPS Battery Switchgear products are designed and tested by the switchgear standard IEC 61439-2

Contact local Eaton sales for support with selecting breakers.







Eaton UBS with a single breaker

Part number	Description	Width (mm)	Height (mm)	Depth (mm)	Weight (kg)
P-105000004-021	UPS BATTERY SWITCHGEAR 80 A	250	420	300	8
P-105000004-003	UPS BATTERY SWITCHGEAR 200 A	250	420	300	12
P-105000004-006	UPS BATTERY SWITCHGEAR 400 A	375	500	320	16
P-105000004-012	UPS BATTERY SWITCHGEAR 700 A	600	1005	300	70
P-105000004-004	UPS BATTERY SWITCHGEAR 200 A + 2x125 A	600	1203	420(a)	100
P-105000004-005	UPS BATTERY SWITCHGEAR 200 A + 4x125 A	600	1203	420(a)	100
P-105000004-007	UPS BATTERY SWITCHGEAR 400 A + 2x200 A	600	1203	420(a)	100
P-105000004-008	UPS BATTERY SWITCHGEAR 400 A + 4x125 A	600	1203	420(a)	100
P-105000004-020	UPS BATTERY SWITCHGEAR 400 A + 3x200 A	600	1203	420(a)	100
P-105000004-013	UPS BATTERY SWITCHGEAR 700 A + 2x400 A	800	1608	420(a)	120
P-105000004-014	UPS BATTERY SWITCHGEAR 700 A + 4x200 A	800	1608	420(a)	120
P-105000004-016	UPS BATTERY SWITCHGEAR 700 A + 3x400 A	800	1608	420(a)	120

<sup>(</sup>a) Casing depth 300 mm. 120 mm added if used with wall mounting kit.

## External maintenance bypass switches (MBS)

External Maintenance Bypass Switches (MBS) increase safety and reliability by enabling seamless transfers to bypass and isolation of the UPS system for maintenance. Eaton External MBSs are designed to UPS standard IEC 62040. External MBSs are available for power range from 8 kW to 150 kW

#### Features:

Cabinet color: BlackIP rating: IP21 / 22

• Operation Temperature: 0-40 °C

• 100/150 kW models with interlocking plate

· All cabinets are wall-mounted



External MBS 50 kW

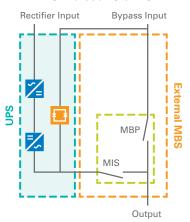




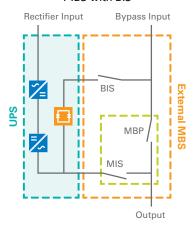
External MBS 100 kW and 150 kW door closed

### **External MBS wiring diagrams**

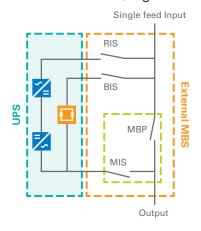
#### MBS without BIS or RIS



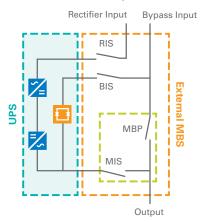
MBS with BIS



MBS with RIS and BIS, single feed



MBS with RIS and BIS, dual feed



Part number	Description	Width (mm)	Height (mm)	Depth (mm)	Weight (kg)
1PH MBSs					
P-105000088-002	EXTERNAL MBS 15 kW 1PH	506	514	275	22
P-105000088-003	EXTERNAL MBS 15 kW 1PH WITH BIS	506	514	275	24
P-105000089-002	EXTERNAL MBS 30 kW 1PH	506	514	275	23
P-105000089-003	EXTERNAL MBS 30 kW 1PH WITH BIS	506	514	275	25
3PH MBSs					
P-105000044-002	EXTERNAL MBS 20 kW	506	514	275	26
P-105000044-003	EXTERNAL MBS 20 kW WITH BIS	506	514	275	27
P-105000044-004	EXTERNAL MBS 20 kW WITH BIS AND RIS (SINGLE FEED)	506	514	275	27
P-105000045-002	EXTERNAL MBS 40 kW	506	514	275	26
P-105000045-003	EXTERNAL MBS 40 kW WITH BIS	506	514	275	27
P-105000045-004	EXTERNAL MBS 40 kW WITH BIS AND RIS (SINGLE FEED)	506	514	275	27
P-105000003-020	EXTERNAL MBS 50 kW	560	635	159	25
P-105000003-046	EXTERNAL MBS 50 kW WITH BIB	560	635	159	26
P-105000003-022	EXTERNAL MBS 100 kW	710*	1553	260	87
P-105000003-023	EXTERNAL MBS 100 kW WITH BIB	710*	1553	260	95
P-105000003-024	EXTERNAL MBS 100 kW WITH BIB AND RIB (DUAL/SINGLE FEED)	710*	1553	260	108
P-105000003-026	EXTERNAL MBS 150 kW	710*	1553	260	87
P-105000003-027	EXTERNAL MBS 150 kW WITH BIB	710*	1553	260	95
P-105000003-028	EXTERNAL MBS 150 kW WITH BIB AND RIB (DUAL/SINGLE FEED)	710*	1553	260	108

<sup>\*200</sup> mm is required for both sides of the cabinet for air flow.

## Eaton 93PM and 93PM G2 specific options and accessories

#### Eaton 93PM and 93PM G2 Top air exhaust kit

The Top Air Exhaust -kit converts the UPS cabinet airflow from Front-to-Rear to Front-to-Top. This enables direct placement against a wall and directing UPS exhaust away from any adjacent battery cabinets to prevent heating of the batteries and the resultantly reduced battery life. This kit is available for Eaton 93PM 80-100kW, 93PM 400-500 kW and 93PM G2 units. This kit can only be assembled on the Eaton factory.

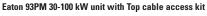
#### Eaton 93PM Top Cable access kit

The Top Cable Access -kit adds ample space for top cable entry while maintaining a compact footprint. This kit is available for Eaton 93PM 30-100 kW units.

#### **Available options**

- Maintenance Bypass
- · Coated circuit boards
- Factory tests
- · Special colors
- Frequency conversion mode
- · Internal batteries
- · Internal super capacitors
- Separate battery terminals per power module
- Seismic kits







Eaton 93PM G2 with the top air fans installed (top view)

Part number	Description	Width (mm)	Height (mm)	Depth (mm)	Weight (kg)
Eaton 93PM Top air exhaust kit					
Optional part of complete UPS, contact local sales	93PM top air exhaust kit 80-100 kW units	560	1885	200 (a)	21
Optional part of complete UPS, contact local sales	93PM top air exhaust kit for 500 kVA frame units	1521	1968	200 (a)	60
Eaton 93PM Top cable access kit					
P-103000719	93PM top cable access kit 30-100 kW units	100 (b)	1885	920	18
Other Eaton 93PM kits					
P-103001257	Single feed kit for 100 kW frame, busbars	Inside the UI	PS frame. No notal	ble effect on the	UPS dimension
Optional part of complete UPS, contact local sales	Single feed kit for 500 kW frame, busbars	Inside the UI	PS frame. No notal	ble effect on the	UPS dimension
P-103000847	Parallel kit to connect two parallel 93PM frames	Inside the UI	PS frame. No notal	ble effect on the	UPS dimensions

#### Eaton 93PM G2 Top air exhaust kit

Optional part of complete UPS, contact local sales	93PM G2 top air exhaust kit 50-360 kVA units	Inside the UPS frame. No notable effect on the UPS dimensions
Other 93PM G2 kits		
P-103004592	93PM G2 single feed kit	Inside the UPS frame. No notable effect on the UPS dimensions
P-103004593	93PM G2 air filter kit	Inside the UPS frame. No notable effect on the UPS dimensions
P-103000847	Parallel kit to connect two parallel 93PM G2 frames	Inside the UPS frame. No notable effect on the UPS dimensions

## Power Xpert 9395P specific options and accessories

For the Power Xpert 9395P product family there is a very wide offering of options and modifications available. Outside of the standard offering, Power Xpert 9395P units can be widely modified based on the customer requirements.

Please contact local Eaton sales for support with Power Xpert 9395P products.

#### **UPM Status LEDs**

Power module status lights allow the user to detect the system status with one look. The power module lights change color depending upon their status. This optional feature makes the visual detection of the UPS system status easier, increasing operational safety and reducing the time required for trouble shooting.

#### **HMI Display**

As a default, there is a 7" display in the Power Xpert 9395P units up to 600 kVA. In the bigger 900 kVA and 1200 kVA units 10" display will be installed by default. Optionally this bigger 10" display can be installed into smaller units also.

#### **Available options**

- · Seismic kits
- · Special colors
- · No neutral kits
- Factory tests
- · Frequency conversion mode
- Flanges
- Maintenance Bypass (up to 300 kVA)



Power Xpert 9395P 1200 kVA with status LED lights

Part number	Info
Optional part of complete UPS, contact local sales	Status LED light (1 per power module)
P-103004604	Single feed kit for 250-600 kVA, Al
P-103004605	Single feed kit for 900-1200 kVA, AI
P-103000824	Single feed kit for 900-1200 kVA, Cu
HPO-1040817	Aluminum Gland plate for 9395P 300 kVA and 600 kVA frames (1 piece)
HPO-1040802	Aluminum Gland plate for 9395P 900 kVA and 1200 kVA frames (1 piece)
P-103000777	Kick plate for 9395P 300 kVA frame
P-103000102	Kick plate for 9395P 600 kVA frame
P-103000107	Kick plate for 9395P 900 kVA frame
P-103000089	Kick plate for 9395P 1200 kVA frame

# Eaton 91PS and 93PS specific options and accessories

For the Eaton 91PS and 93PS UPS family, there are available options for increasing protection against dripping water, enabling single feed connection and paralleling UPSs.

### **Available options**

- · Seismic kits
- · Coated circuit boards
- · Factory tests
- · Special colors

- Frequency conversion mode
- Internal batteries
- · Internal super capacitors
- Maintenance Bypass

Part
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number	Description	
P-103002165	KIT 93PS-20 SINGLE FEED	Inside the UPS frame. No effect on the UPS dimensions
P-103000847	Parallel kit to connect two parallel 93PS frames	Inside the UPS frame. No effect on the UPS dimensions
P-103002688	KIT 93PS 20 kW IP21	IP21 upgrade for 15/20 kW frames
P-103002689	KIT 93PS 40 kW IP21	IP21 upgrade for 30/40 kW frames
P-105000111-002	91PS/93PS 8-10 BATTERY SIDECAR 1x32 9AHLL	Additional battery string for 10 kW frame to increase autonomy time of UPS. Increases width of the UPS by 16,5 cm.
P-103002588	KIT 93PS-20 POWER CABLE BOX	Connection area expansion kit for 91PS/93PS 10-20 kW frames
P-103003732	KIT 9XPS-40 POWER CABLE BOX	Connection area expansion kit for 91PS/93PS 30-40 kW frames



Eaton 93PS

## Eaton 93PS-M specific options and accessories

Eaton 93PS marine UPS product is easiest to deploy, economical to operate and effortless to maintain. Additionally, there are also wide offering of options and customizations available based on customer requirements.

### **Available options**

- · Internal super capacitors
- Internal transformers
- · C-Model with reduced height
- · Frequency conversation mode
- Higher IP rating up to IP33
- Insulation monitoring relay
- Maintenance Bypass
- Special colors
- Factory tests
- · Marine class certificates



## Eaton 9PHD specific options and accessories

For the Eaton 9PHD product family there is a very wide offering of options and modifications available. Outside of the standard offering, the 9PHD units can be widely modified based on the customer requirements.

Please contact local Eaton sales for support with 9PHD products.

#### **Available options**

- Seismic kits
- Special colors
- · Higher IP ratings up to IP54
- · Marine solutions
- No neutral kits
- · Internal transformers
- Wide voltage range (380-480 V)
- · Factory tests

- Frequency conversion mode
- Lifting lugs
- Top air exhaust kits
- Insulation monitoring relays
- Up to 125 kVA + 100 kVA transformers in one matching transformer cabinet
- · Internal batteries
- Maintenance Bypass



Eaton 9PHD marine UPS with IP54 filters. Spacious power cabling area on the right side

### Eaton synchronization options

There are three types of options available for Eaton UPS products synchronizing their outputs for various purposes.

#### **Sync Control II**

- Device to keep two separate Eaton UPS system outputs in sync to each other
- Typical requirement when two UPS systems are feeding inputs of an STS (static transfer switch)
- Having systems synced allows the STSs make seamless transfers between system
- Either system can be a sync master in this application
- Can't be used to parallel outputs of two systems

#### **Fixed Master Sync Control**

- Purpose of this device is the same as the Sync Control II, but the master is always fixed
- Typical applications are where multiple UPS systems need to be synced to one master system
- Alternatively fixed master can be used to sync Eaton UPS as permanent slave and the other UPS (static or rotary type) system as fixed master
- Can't be used to parallel outputs of two systems

#### **Power Block Sync**

- Allows using one maintenance UPS system for multiple UPS systems
- Can be used for scaling up the installation by adding more UPS systems
- Used to firmly synchronize two separate Power Xpert 9395P systems in order to temporarily parallel outputs of both systems
- Allows for example to transfer loads from one system to another while UPS systems remain online and loads protected
- Can be called as UPS protected bus bar transfer
- Power Block Sync system is to be used only temporarily during load transfers

Contact local Eaton sales for support with selecting the right sync control unit.





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