

# Eaton 3ph UPS Accessories



*Powering Business Worldwide*

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 whilst reducing installation time and total cost. All Eaton are designed by UPS standard IEC 62040-1-2-3 and/or Switchgear standard IEC 61439-1-2-3.

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\*Please visit [www.eaton.eu](http://www.eaton.eu) websites and contact local sales for more information

# Eaton Breaker Kits

Eaton Breaker Kits include the same Eaton breakers which are used in the battery cabinets. Breaker Kits can be used with external battery solutions for example, racks.

## Features

Kits include a breaker, and a shunt trip coil for remote tripping. 700A version also includes the extension handle. See separate datasheets for more detailed info.



Eaton Circuit-breaker, 3p, 200A, NZMN3-A200



Eaton Circuit-breaker, 3p, 400A, NZMN3-A400

| Part number  | Description             | Breaker Type  |
|--|-------------------------|---|
| <b>For 8-200kW power range. Kits include 24V Shunt Trip for 93PS and 93PM.</b> |                         |   |
| P-122000219  | KIT EXT BATT MCCB 63A   | MCCB 63A 3P 415VAC/500VDC 50/15kA NZMN1 (Eaton Moeller)       |
| P-122000220  | KIT EXT BATT MCCB 160A  | MCCB 160A 3P 415VAC/500VDC 50/15kA NZMN1 (Eaton Moeller)      |
| P-122000182  | KIT EXT BATT MCCB 200A  | MCCB 200A 3P 415VAC/750VDC 50/30kA NZMN2 (Eaton Moeller)      |
| P-122000183  | KIT EXT BATT MCCB 400A  | MCCB 400A 3P 415VAC/750VDC 50/30kA NZMN3 (Eaton Moeller)      |
| P-122000184  | KIT EXT BATT MCCB 500A  | MCCB 500A 3P 415VAC/750VDC 50/30kA NZMN3 (Eaton Moeller)      |
| P-122000180  | KIT EXT BATT MCCB 700A  | MCCB 700A 3P 600VDC 20/10kA ST24V+AUX (Eaton Cutler-Hammer)   |
| <b>For 9395/9395P power ranges. Kits include 48V Shunt Trip.</b>               |                         |   |
| P-122000194  | KIT EXT BATT MCCB 800A  | MCCB 800A 600VDC 20kA IEC 3P ST48V+AUX (Eaton Cutler-Hammer)  |
| 1027360  | KIT EXT BATT MCCB 1200A | MCCB 1200A 600VDC 50kA UL 3P ST48V+AUX (Eaton Cutler-Hammer)  |
| P-122000195  | KIT EXT BATT MCCB 1600A | MCCB 1600A 600VDC 20kA IEC 3P ST48V+AUX (Eaton Cutler-Hammer) |

# External MBSs

External Maintenance Bypass Switches (MBS) add safety and reliability by enabling seamless transfers to bypass and isolation of the UPS system for maintenance. Eaton external MBSs are designed by UPS standard IEC 62040.



External MBS 50kW

## Features

- Cabinet color: Black, RAL 7035
- IP rating: IP20
- Operation Temperature: 0-40C
- Relative humidity: 5-95%
- 100kW and 150kW with interlocking plate
- All cabinets are wall mounted

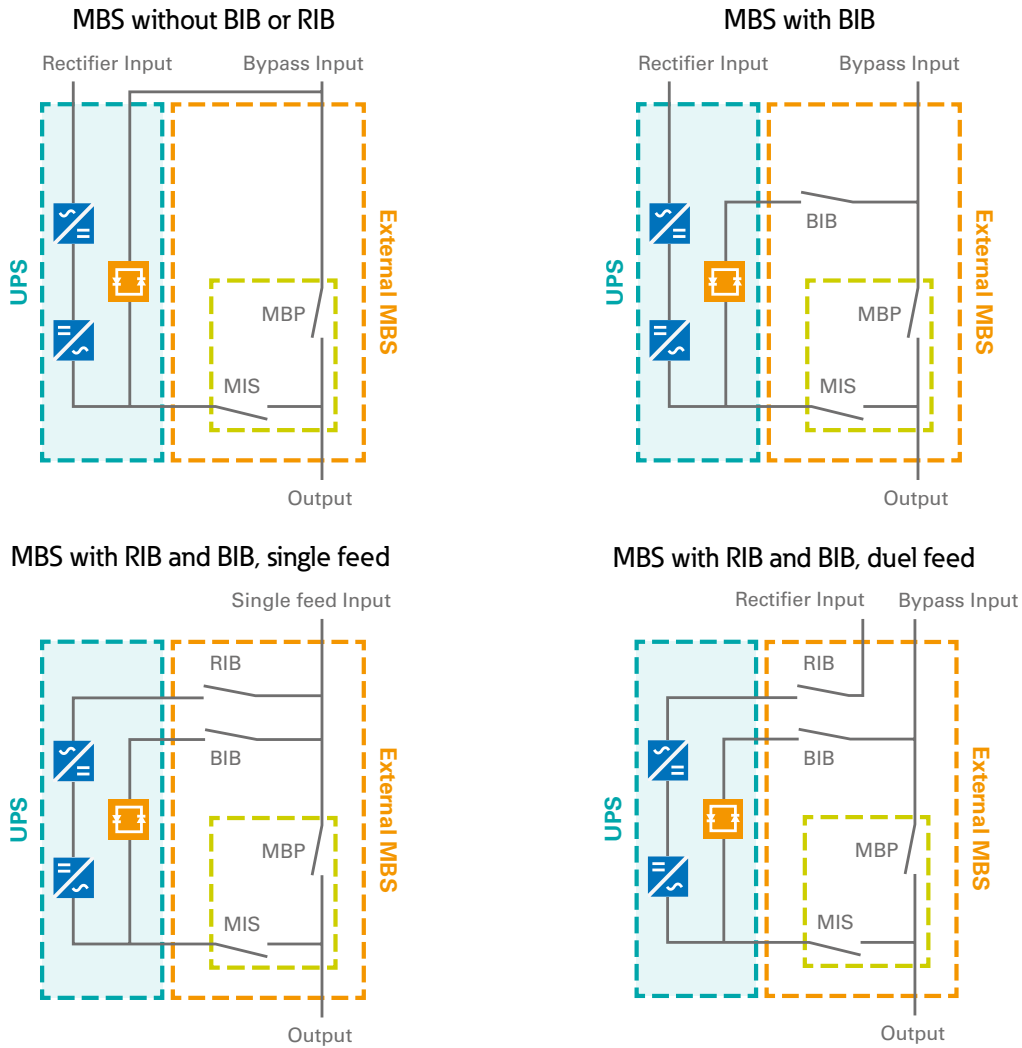


External MBS 100kW and 150kW



External MBS 100kW and 150kW door closed

## External MBS wiring diagrams



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

\*20cm is required for both sides of the cabinet for air flow.

# Battery cabinets

Eaton battery cabinets for 3ph UPSes minimize footprint, maximize safety and serviceability. In the offering there are empty cabinets, but also preloaded cabinets with batteries installed to reduce site installation time. All the Eaton battery cabinets are designed by the UPS standard IEC 62040.



Eaton 93P/E small battery cabinet for 93PS units, 8-20kVA

## Features

- Front access cabinets designed to accommodate a range of high-density/high-rate VRLA batteries, combining long run time with small footprint
- DC rated battery circuit breaker provides protection and enables isolation for maintenance
- Slide-out battery trays with retaining latches and inter-tray connectors facilitate safe and easy maintenance
- Depending on the cabinet, side, rear, top and bottom cable entry points facilitate remote or "line-up and match" installation with 93PS, 93E and 93PM UPS
- Daisy-chain cabinets for extended runtime
- Cabinet wheels for easy off-loading and positioning
  
- Battery Cabinet Breaker sizing:
  - 63A - for 8-20kW UPS
  - 160A - for 8-40kW UPS
  - 200A - for 30-50kW UPS
  - 400A - for 80-100kW UPS
  - 500A - for 120-150kW UPS
  - 700A - for 160-200kW UPS

[Contact local Eaton sales for support with runtimes and battery cabinet selection](#)



Eaton 93P/E small battery cabinet for 93PM and 93E units, 30-150kVA

| Part number  | Description   | Width (mm) | Height (mm) | Depth (mm) | Weight (kg) |
|--|---|------------|-------------|------------|-------------|
| <b>Small cabinets for 8-20kW (93PS)</b>                                |   |            |             |            |             |
| P-105000041-001  | 93P/E-BAT-S-EMPTY (63A)                             | 335        | 1300        | 700        | 106         |
| P-105000041-002  | 93P/E-BAT-S-2x32-9Ah (63A)                          | 335        | 1300        | 700        | 268         |
| P-105000041-003  | 93P/E-BAT-S-3x32-9Ah (63A)                          | 335        | 1300        | 700        | 349         |
| P-105000041-004  | 93P/E-BAT-S-2x32-7Ah-LL (63A)                       | 335        | 1300        | 700        | 268         |
| P-105000041-005  | 93P/E-BAT-S-3x32-7Ah-LL (63A)                       | 335        | 1300        | 700        | 349         |
| <b>Large cabinets for 8-40kW (93PS)</b>                                |   |            |             |            |             |
| P-105000042-001  | 93P/E-BAT-L-EMPTY (160A)                            | 761        | 1750        | 700        | 179         |
| P-105000042-002  | 93P/E-BAT-L-1x32-200W (160A)                        | 761        | 1750        | 700        | 742         |
| <b>Small cabinets for 30-100kW (93PM/93E)</b>                          |   |            |             |            |             |
| P-105000017-001  | 93P/E-BAT-S-0x36-EMPTY (200A) M5 cables (30-60kVA)  | 575        | 1876        | 914        | 167         |
| P-105000017-002  | 93P/E-BAT-S-1x36-110W (200A) (30-60kVA)             | 575        | 1876        | 914        | 517         |
| P-105000017-004  | 93P/E-BAT-S-1x36-200W (200A) (30-60kVA)             | 575        | 1876        | 914        | 795         |
| P-105000017-005  | 93P/E-BAT-S-0x36-EMPTY (200A) M6 cables (30-60kVA)  | 575        | 1876        | 914        | 167         |
| P-105000017-006  | 93P/E-BAT-S-1x36-GNB P12V875 (200A) (30-60kVA)      | 575        | 1876        | 914        | 683         |
| P-105000017-007  | 93P/E-BAT-S-1x36-GNB XP12V1800 (200A) (30-60kVA)    | 575        | 1876        | 914        | 971         |
| P-105000018-001  | 93P/E-BAT-S-0x40-EMPTY (400A) M6 cables (80-100kVA) | 575        | 1876        | 914        | 167         |
| P-105000018-002  | 93P/E-BAT-S-1x36-200W (400A) (80-100kVA)            | 575        | 1876        | 914        | 795         |
| P-105000018-003  | 93P/E-BAT-S-1x40-200W (400A) (80-100kVA)            | 575        | 1876        | 914        | 872         |
| P-105000018-004  | 93P/E-BAT-S-1x36-GNB XP12V1800 (400A) (80-100kVA)   | 575        | 1876        | 914        | 971         |
| P-105000018-005  | 93P/E-BAT-S-1x40-GNB XP12V1800 (400A) (80-100kVA)   | 575        | 1876        | 914        | 1061        |
| <b>Large cabinets for 80-200kW, shipped empty (93PM/93E)</b>           |   |            |             |            |             |
| P-105000035-001  | 93P/E-BAT-L-EMPTY (400A) M6 cable lugs (80-100kW)   | 1086       | 1888        | 914        | 312         |
| P-105000035-002  | 93P/E-BAT-L-EMPTY (400A) M8 cable lugs (80-100kW)   | 1086       | 1888        | 914        | 312         |
| P-105000036-001  | 93P/E-BAT-L-EMPTY (500A) M6 cable lugs (120-150kW)  | 1086       | 1888        | 914        | 320         |
| P-105000036-002  | 93P/E-BAT-L-EMPTY (500A) M8 cable lugs (120-150kW)  | 1086       | 1888        | 914        | 320         |
| P-105000037-001  | 93P/E-BAT-L-EMPTY (700A) M6 cable lugs (150-200kW)  | 1086       | 1888        | 914        | 328         |
| P-105000037-002  | 93P/E-BAT-L-EMPTY (700A) M8 cable lugs (150-200kW)  | 1086       | 1888        | 914        | 328         |
| <b>Large cabinets for 80-200kW, shipped with batteries installed</b>   |   |            |             |            |             |
| P-105000038-001  | 93-BAT10-280 (400A) (CSB HRL 12280W) (80-100kVA)    | 1125       | 1879        | 808        | 1444        |
| P-105000038-002  | 93-BAT10-330 (400A) (CSB HRL 12330W) (80-100kVA)    | 1125       | 1879        | 808        | 1625        |
| P-105000038-003  | 93-BAT10-500 (400A) (CSB HRL12500W) (80-100kVA)     | 1125       | 1879        | 808        | 2116        |
| P-105000038-004  | 93-BAT10 (400A) (EMPTY) (80-100kVA)                 | 1125       | 1879        | 808        | 412         |
| P-105000039-001  | 93-BAT10-280 (700A) (CSB HRL 12280W) (150-200kVA)   | 1125       | 1879        | 808        | 1444        |
| P-105000039-002  | 93-BAT10-330 (700A) (CSB HRL 12330W) (150-200kVA)   | 1125       | 1879        | 808        | 1625        |
| P-105000039-003  | 93-BAT10-500 (700A) (CSB HRL12500W) (150-200kVA)    | 1125       | 1879        | 808        | 2116        |
| P-105000039-004  | 93-BAT10 (700A) (EMPTY) (150-200kVA)                | 1125       | 1879        | 808        | 412         |
| <b>Large cabinets for 9395/9395P, shipped with batteries installed</b> |   |            |             |            |             |
| 1026960  | 9395-BAT10-540 (700A) (CSB HRL12540W)               | 1125       | 1879        | 808        | 2116        |
| 1026961  | 9395-BAT10-EMPTY (700A)                             | 1125       | 1879        | 808        | 412         |

# Eaton 93PM Specific options and accessories

For Eaton 93PM UPS family there is a wide range of special options available. With these options deployment of the UPS system is greatly easier when the airflow and the cabling routes can be managed, and also the largest frame up to 200kW has the MBS options.

## Eaton 93PM Top air exhaust kit

The Top Air Exhaust -kit converts the UPS cabinet airflow from Front-to-Rear to Front-to-Top, enabling direct placement against a wall and directing UPS exhaust away from any adjacent battery cabinets to prevent heating of the batteries and the resultant reduced battery life. This kit available for 80-150kW 93PM 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 whilst maintaining a compact footprint. This kit is available for 30-150kW 93PM units.



Eaton 93PM 200kW unit with SIAC MBS 4 switches (door removed)



Eaton 93PM 30-150kW unit with Top cable access kit

## Eaton 93PM EMC C2 kit for 30-50kW units

As a default all 93PM units are in EMC category C3. With EMC kit 93PM UPS with single 30-50kW power module in 50kW frame is suitable for environments requiring EMC category C2. This kit can only be assembled on the Eaton factory.

## Eaton 93PM Sidecar MBS for 200kW frame, SIAC

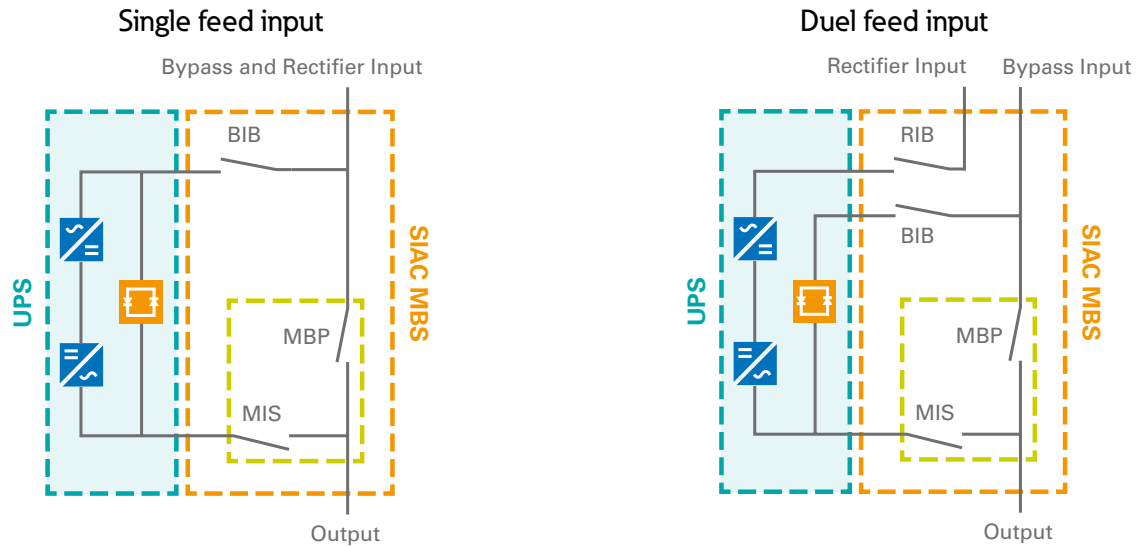
Sidecar Integrated Accessory Cabinet (SIAC) MBS option for the 93PM 200kW frame, expands the internal MBS offering up to 200kW. Sidecar MBS option adds safety and reliability by enabling seamless and easy transfers to bypass for the UPS system maintenance. There are two different alternatives available, one with three switches: MBP+MIS and RIB, and one with four switches MBP+MIS, RIB and BIB. This kit can only be assembled on the Eaton factory.



Eaton 93PM 200kW with SIAC MBS and Top air exhaust kit



## SIAC MBS wiring diagrams



| Part number                                    | Description   | Width (mm)  | Height (mm) | Depth (mm) | Weight (kg) |
|--|---|---|-------------|------------|-------------|
| <b>93PM Top air exhaust kit</b>                |   |   |             |            |             |
| P-103000926                                    | 93PM top air exhaust kit 80-150kW units                                 | 560   | 1885        | 200 (a)    | 21          |
| P-103000927                                    | 93PM top air exhaust kit 160-200kW units                                | 760   | 1885        | 200 (a)    | 28          |
| <b>93PM Top Cable access kit</b>               |   |   |             |            |             |
| P-103000719                                    | 93PM top cable access kit 30-150kW units                                | 100 (b)   | 1885        | 920        | 18          |
| <b>93PM Sidecar MBS for 200kW frame (SIAC)</b> |   |   |             |            |             |
| P-103001249-002                                | Sidecar Integrated Accessory Cabinet MBS 200kW, 3-switches, single feed | 206 (c)   | 1885        | 920        | 44 (d)      |
| P-103001249-004                                | Sidecar Integrated Accessory Cabinet MBS 200kW, 4-switches, dual feed   | 206 (c)   | 1885        | 920        | 44 (d)      |
| <b>Other</b>                                   |   |   |             |            |             |
| P-103001257                                    | Single feed kit for 100 and 150kW frames, busbars                       | Inside the UPS frame. No notable effect on the UPS dimensions |             |            |             |
| P-103001256                                    | Single feed kit for 200kW frame, cables                                 | Inside the UPS frame. No notable effect on the UPS dimensions |             |            |             |
| P-103000650                                    | KIT 93PM 30-50KW EMC-C2   | Inside the UPS frame. No notable effect on the UPS dimensions |             |            |             |
| P-103000847                                    | Parallel kit to connect two parallel 93PM frames                        | Inside the UPS frame. No notable effect on the UPS dimensions |             |            |             |

(a) Adds 200mm to the total depth of the UPS

(b) Adds 100mm to the total width of the UPS

(c) Adds 206mm to the total width of the UPS. Original connection area is replaced with SIAC MBS.

(d) The total installed weight of UPS cabinet with SIAC option is 600kg

# Eaton 93 STS

Eaton 93 STS family provides Static Transfer Switches for seamless and reliable automatic transfer from one power source to another. 93 STS power range goes from 100A up to 1250A, and it includes both 3- and 4- pole versions.

## Static Transfer Switch Seamless power transfer

- 3-phase Static Transfer Switch, for automatic transfer of critical AC loads to and from one power source to another, without interruption.
- Rated from 100A to 1250A.
- Available in 3- and 4-pole versions.

## Reliable performance

- Continuous monitoring of sources ensures automatic and instantaneous power transfer, without cross-connecting the sources.
- Retransfer is also automatic, and there is the capability for manual transfer if required.
- All the system control boards feature redundant internal power distribution.
- A dual manual bypass is built in, to enable safe maintenance with no disruption of the power supply.
- A global installed base reflects the widespread acceptance and popularity of the Eaton 93 STS.

## Connectivity and easy management

- The 93 STS has RS232 and RS485 interfaces, with Modbus protocol. It also features output relay contacts.
- There is a built-in HMI and system mimic panel. The LCD screen and block diagram of the STS – with integrated LEDs – allows a quick check of the switch's operating status.
- Metering, alarms and event logs are also provided.
- The 93 STS range is supplied in a free-standing cabinet.



Eaton 93 STS family

| Part number     | Description          | Width (mm) | Height (mm) | Depth (mm) | Weight (kg) |
|-----------------|----------------------|------------|-------------|------------|-------------|
| P-105000040-001 | 93 STS 100A, 4-pole  | 820        | 1475        | 835        | 265         |
| P-105000040-002 | 93 STS 250A, 4-pole  | 820        | 1475        | 835        | 290         |
| P-105000040-003 | 93 STS 400A, 4-pole  | 820        | 1475        | 835        | 305         |
| P-105000040-007 | 93 STS 630A, 4-pole  | 1220       | 1900        | 860        | 615         |
| P-105000040-004 | 93 STS 800A, 4-pole  | 1220       | 1900        | 860        | 660         |
| P-105000040-005 | 93 STS 1000A, 4-pole | 1220       | 1900        | 860        | 710         |
| P-105000040-006 | 93 STS 1250A, 4-pole | 2000       | 2100        | 1000       | 800         |

# Power Xpert 9395/9395P specific options and accessories

For the Power Xpert 9395/9395P product family there is a very wide offering of options and modifications available. Outside the standard offering the 9395/9395P units can be widely modified based on the customer requirements. Please contact local Eaton sales for support with the 9395/9395P products.

## UPM Status LEDs

Power module status lights allow the user to detect the system status with one look. The power module lights change colour 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 600kVA. In the bigger 900kVA and 1200kVA units 10" display is the default. Optionally this bigger 10" display can be installed into smaller units also.

## Project specific options

- Seismic kits
- Special colors
- Higher IP ratings
- Alternative layout design (L- and U- shapes)
- Separate rectifier feeds
- No neutral kits
- Factory tests



Power Xpert 9395P 1200kVA unit with 10" display and optional LED status lights

| Part number        | Description                                 | Info   |
|--------------------|---|--|
| <b>HPO-1041445</b> | 9395-275/9395P-300 UPM STATUS LIGHTS        | UPM Status LED kit for 1 UPM                       |
| <b>HPO-1041414</b> | 9395-550/9395P-600 UPM STATUS LIGHTS        | UPM Status LED kit for 2 UPMs                      |
| <b>HPO-1041884</b> | 9395-825/9395P-900 UPM STATUS LIGHTS        | UPM Status LED kit for 3 UPMs                      |
| <b>P-103001317</b> | 9395-1100/9395P-1200 UPM STATUS LIGHTS      | UPM Status LED kit for 4 UPMs                      |
| <b>P-103000838</b> | KIT 9395 275/550kVA HMI 10"                 | 10" Display for field installation                 |
| <b>P-103000955</b> | SUBAS 9395 275/550kVA FACTORY INSTALLED HMI | 10" Display for factory installation               |
| <b>1029274</b>     | KIT 3P550 SINGLE INPUT FEED                 | Single feed kit for 275-600kVA, Tin coated bus bar |
| <b>1028997</b>     | KIT 3P825 SINGLE INPUT FEED AL              | Single feed kit for 825-1200kVA, Al                |
| <b>P-103000824</b> | KIT 3P1100 SINGLE INPUT FEED CU             | Single feed kit for 1100-1200kVA, Cu               |

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