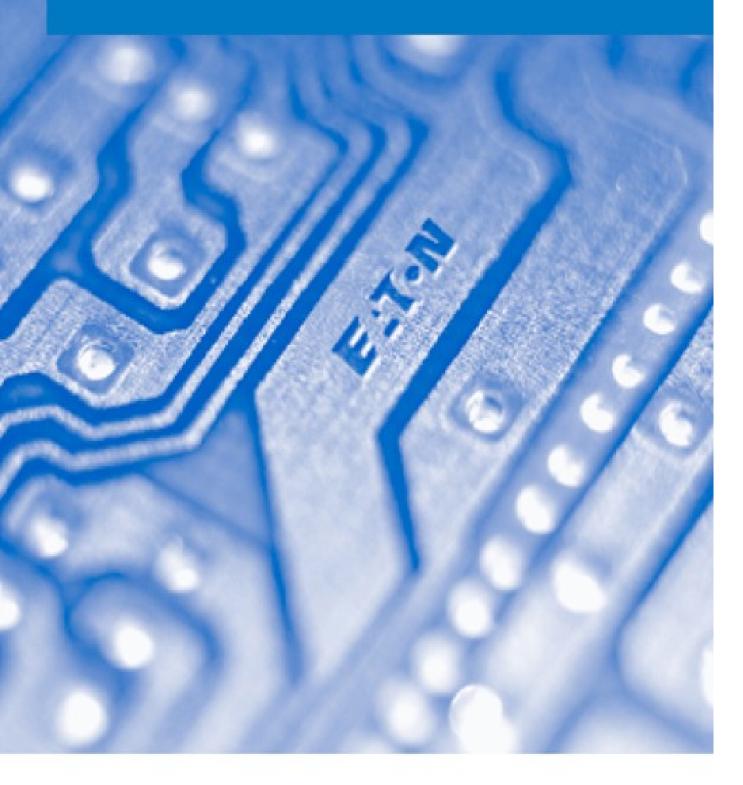
CTO Configuration Guide





QFER01GDE October 15, 2019

Eaton[®] Ferrups[®] FE 50Hz Tower Series

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Configuring Your FERRUPS UPS

FERRUPS must be ordered using a Configure To Order (CTO) Number that reflects the cabinet style, VA rating, voltages, runtime, and other options pertaining to the FERRUPS configuration. As you select the options needed, they will become part of the CTO number.

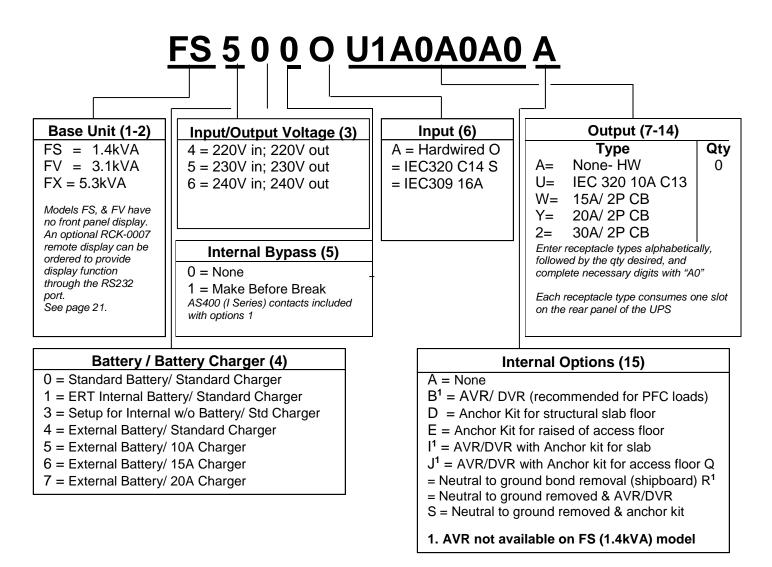
Sample CTO Number: FS500OU1A0A0A0A.

External battery packs, bypass switches and other external options should be ordered as separate items.

| The UPS CTO Worksheet | | | | | | | | | |
|--|------------------|------------------------------|--------------------|---------------------|----------------------------|-------|----------------|--------------|------------|
| | | UPS | S СТО | Ord | ler Code | | List Price | Discount | Net Price |
| Base Unit | F_ | | | | | | | | |
| Input / Output Voltage | | | | | | | | | |
| Battery and Battery Charger | | | | | | | | | |
| Internal Maintenance Bypass Switch | | | | | | | | | |
| Input Connection | | | | | | | | | |
| Output Connection | | | | | | | | | |
| Internal Options | | | | | | | | | |
| Complete UPS CTO Number | F_ | | | | | | | | |
| | | | | | UPS Subto | otal | | | |
| External Battery Pack | | | | | | | | | |
| Battery Pack Selected: | | | | | | | | | |
| Other External Battery Options Selecte | d: | | | | | | | | |
| External Maintenance Bypass | Swite | ch | | | | | | | |
| External Maintenance Bypass Switch S | Selecte | ed: | | | | | | | |
| Other External Options | | | | | | | | | |
| | | | | | | | | | |
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| Note: Eaton offers a complete line of P visit our websites, powerquality.eaton.c | ower :om ar | Distribut nd <u>www.e</u> | tion Ui epdu.co | nits <u>om</u> , | (PDUs). Pleas for details. | se co | ontact your sa | ales represe | ntative or |
| | | | | | Sub To | otal | | | |
| | | | | | | | | Freight | |
| | | | | | | | | Insurance | |
| | | | | | | | | Tax/Duty | |
| | | | | | | | (| Quote Total | |

Ferrups 50Hz Tower Series Quick Reference

Note: Not all options are available on each base unit. Options restrictions exist. Please consult information in this guide for further detail.



^{*} Eaton has announced the End of Life of these Ferrups options. Products will be available while supplies last.

QFE1.4kVA CTO Configuration Guide

Ferrups 1.4kVA 50Hz Tower General Specifications

| Capacity: |
|-----------------|
| Input Voltage: |
| Output Voltage: |

1.4kVA/ 1.0kW 220, 230, 240V 220, 230, 240V Dimensions: (HxWxD) Weight (with batteries¹): Weight (without batteries):

15.1" x 15.25" x 20.2" 385mm x 390mm x 515mm 70kg / 154lb 45.5kg / 100lb

See Eaton® Ferrups® FE Series 50Hz Product Focus (ILP0368) for additional product specification.

1. Weights are approximate for standard batteries, option 0 for digit 4.

| Base Unit | | Digits 1-2 |
|--------------------------------------|----------------|------------|
| Base Model, Frequency, Cabinet Style | CTO Order Code | Base Price |
| QFE1.4kVA, 50 Hz Tower | FS | \$7,533 |

| Input / Output Voltage | | | Digit 3 |
|------------------------|----------------|----------------|---------------------|
| Input Voltage | Output Voltage | CTO Order Code | Option Price |
| 220 | 220 | 4 | \$0 |
| 230 | 230 | 5 | \$0 |
| 240 | 240 | 6 | \$0 |

| Bat | Digit 4 | | |
|--------------------------------------|-----------------|----------------|---------------------|
| Battery Configuration | Battery Charger | CTO Order Code | Option Price |
| 14 minute internal (37m half load) | standard | 0 | \$319 |
| 21 minute internal (25m half load) | standard | 1 | \$490 |
| Set up for internal (less batteries) | standard | 3 | \$97 |
| set up for external battery pack1 | standard | 4 | \$50 |

¹ Includes External Battery Connector

Order desired external battery pack as a separate line. See page 1.4k-3.

| Internal Maintenance Bypass | Digit 5 | |
|---|----------------|---------------------|
| Internal Maintenance Bypass Switch | CTO Order Code | Option Price |
| No internal maintenance bypass switch option available ¹ | 0 | \$0 |
| 1 | | |

¹External maintenance bypass switch available for hardwired systems. Order desired maintenance bypass switch as a separate line item on your order. See page 1.4k-3.

QFE1.4kVA CTO Configuration Guide

| | Input Connection | | Digit 6 |
|------------------------|-----------------------------------|----------------|---------------------|
| Input Voltage Selected | Input Connection | CTO Order Code | Option Price |
| Any | Hardwired ¹ | А | \$45 |
| 220, 230, 240 | IEC320 – Jumper Cord ³ | 0 | \$0 |

¹ Hardwired input requires hardwired output

² Cannot be used with 15 Amp battery charger

³ Limits output connections to two panels

Output Connection

Designated by 8 digits within the unit CTO number. These eight digits allow selection of the type and quantity for up to four different types of receptacles.

- Three output slots available when a NEMA line cord is selected
- Two output slots available when an international line cord is selected.
- For multiple quantities of one receptacle type, enter the type once with the total quantity (ex: B2 not B1B1).
- Always enter the receptacle types alphabetically (ex: B1C1 not C1B1).
- If hardwire output is desired, select type "A", quantity "0" for all four receptacle types (ex: A0A0A0A0).
- If fewer than four types of receptacle are selected, complete the remaining receptacle digits with A0 (ex: B1C1A0A0).

| Output Voltage Required Output Connection | | | CTO Or | der Code | Option Price |
|---|------------------------------|------------|------------|--------------|---------------------|
| Output Voltage Required | Output Connection | | | Qty | per Panel |
| Any | Hardwired ¹ | | А | 0 | \$0 |
| 220, 230, 240V | IEC320 10A (Qty 2 per panel) | | U | | \$50 |
| Receptacle Output Connection | CTO Order Code | | | <u> </u> | |
| Hardwire Output Connection C | FO Order Code | <u>A 0</u> | <u>A 0</u> | <u>A0 A0</u> | |
| ¹ Hardwired output requires hardwi | red input | | | | |

| Internal Options | | Digit 15 |
|--|----------------|---------------------|
| Option | CTO Order Code | Option Price |
| No other option | A | \$0 |
| Anchor Kit for structural slab floor | D | \$200 |
| Anchor Kit for raised or access floor | E | \$200 |
| Neutral to Ground bond removal (For Shipboard Use) | Q | \$25 |

External Options

External battery packs, bypass switches and other external options are not a part of the CTO number and will need to be ordered as separate line items. Some external options require that the UPS be configured for use with the option. More options are listed in the Additional External Options section of this guide.

Digits 7-14

QFE1.4kVA CTO Configuration Guide

| External Battery Packs | | | | |
|------------------------|--------------------------|--------------|------------|--|
| Runtime Full/Half | Battery Charger Required | Order Number | List Price | |
| 38m/1h38m | Standard Battery Charger | 2me | \$2,083 | |
| 55m/2h26m | Standard Battery Charger | 3me | \$2,409 | |

| External Battery Accessories | | | |
|---|--------------|------------|--|
| Option | Order Number | List Price | |
| External Battery Connector Extension (72") Also recommended for third-party external battery configurations. | BCS-0108 | \$131 | |

| External Maintenance Bypass Switches ¹ (Recommended for hardwired units) | | | | | |
|---|-----------------------------------|--------------|-------|--|--|
| UPS Input Voltage | Switch Type Order Number List | | | | |
| 000 000 040 | MBB (Make Before Break) | BPE01MBB1A | \$663 | | |
| 220, 230, 240 | MBB, with AS/400 (iSeries) Option | BPE01MBBAS1A | \$690 | | |

¹ Bypass Switch must be mounted on the wall near the UPS.

QFE3.1kVA CTO Configuration Guide

Ferrups 3.1kVA 50Hz Tower General Specifications

| Capacity: | |
|-----------------|--|
| Input Voltage: | |
| Output Voltage: | |

3.1kVA/ 2.2kW 220, 230, 240V 220, 230, 240V

Dimensions: (HxWxD) Weight (with batteries¹): Weight (without batteries):

21.2" x 15.25" x 22.9" 540mm x 390mm x 585mm 116kg / 256lb 69kg / 152lb

See Eaton® Ferrups® FE Series 50Hz Product Focus (ILP0368) for additional product specification.

1. Weights are approximate for standard batteries, option 0 for digit 4.

| Base Unit | | Digits 1-2 |
|--------------------------------------|----------------|------------|
| Base Model, Frequency, Cabinet Style | CTO Order Code | Base Price |
| QFE3.1kVA, 50 Hz Tower | FV | \$11,459 |

| Input / Output Voltage | | | Digit 3 |
|------------------------|--------------|---|---------|
| Input Voltage | Option Price | | |
| 220 | 220 | 4 | \$0 |
| 230 | 230 | 5 | \$0 |
| 240 | 240 | 6 | \$0 |

| Batte | Digit 4 | | |
|--------------------------------------|--------------------------------------|----------------|---------------------|
| Battery Configuration | Battery Charger | CTO Order Code | Option Price |
| 14 minute internal (35m half load) | standard | 0 | \$833 |
| 37 minute internal (1h38m half load) | standard | 1 | \$1,414 |
| Set up for internal (less batteries) | standard | 3 | \$233 |
| set up for external battery pack1 | standard | 4 | \$98 |
| set up for external battery pack1 | 15 amp internal upgrade ² | 6 | \$743 |

¹ Includes External Battery Connector Order desired external battery pack as a separate line. See page 3.1k-5.

² Required for external battery packs 12me – 15me

| Internal Maintenance Bypass | Digit 5 | |
|---|---------|--------------|
| Internal Maintenance Bypass Switch CTO Order Code | | Option Price |
| No internal maintenance bypass switch option available ¹ | 0 | \$0 |

¹External maintenance bypass switch available for hardwired systems.

Order desired maintenance bypass switch as a separate line item on your order. See page 3.1k-3.

QFE3.1kVA CTO Configuration Guide

| | Input Connection | | Digit 6 |
|------------------------|---------------------------|----------------|---------------------|
| Input Voltage Selected | Input Connection | CTO Order Code | Option Price |
| 220, 220, 2401/ | Hardwired ¹ | А | \$48 |
| 220, 230, 240V | IEC309 16A ^{2,4} | S | \$60 |

¹ Hardwired input requires hardwired output

² Cannot be used with 15 Amp battery charger

⁴Limits output connections to two panels

Output Connection

Digits 7-14

Designated by 8 digits within the unit CTO number. These eight digits allow selection of the type and quantity for up to four different types of receptacles.

- Three output slots available when a NEMA line cord is selected •
- Two output slots available when an international line cord is selected. •
- For multiple quantities of one receptacle type, enter the type once with the total quantity (ex: B2 not B1B1). •
- Always enter the receptacle types alphabetically (ex: B1C1 not C1B1). •
- If hardwire output is desired, select type "A", quantity "0" for all four receptacle types (ex: A0A0A0A0). •
- If fewer than four types of receptacle are selected, complete the remaining receptacle digits with A0 (ex: . B1C1A0A0).

| Output Voltage Required | Output Connection | CTO Order Code | | Option Price |
|--|------------------------------|----------------|------------------------------|---------------------|
| Output Voltage Required | | Туре | Qty | per Panel |
| 220, 220, 2401/ | Hardwired ¹ | А | | \$0 |
| 220, 230, 240V | IEC320 10A (Qty 2 per panel) | U | | \$50 |
| Receptacle Output Connection CTO Order Code Hardwire Output Connection CTO Order Code | | <u>A 0</u> | <u>A 0</u> A 0 <u>A 0</u> | |
| ¹ Hardwired output requires hardwired input | | | | |

| Internal Options | | Digit 15 |
|--|----------------|---------------------|
| Option | CTO Order Code | Option Price |
| DVR (recommended when loads contain PFC power supplies) | В | \$0 |
| DVR and Anchor Kit for structural slab floor | I | \$215 |
| DVR and Anchor Kit for raised or access floor | J | \$215 |
| Neutral to Ground bond removal and DVR (For Shipboard Use) | R | \$25 |

QFE3.1kVA CTO Configuration Guide

External Options

External battery packs, bypass switches and other external options are not a part of the CTO number and will need to be ordered as separate line items. Some external options require that the UPS be configured for use with the option. More options are listed in the Additional External Options section of this guide.

| External Battery Packs | | | | |
|----------------------------------|--|--------------|------------|--|
| Runtime Full/Half | Battery Charger Required ¹ | Order Number | List Price | |
| 57m/2h27m | Standard Battery Charger ¹ 15 Amp Battery Charger Upgrade Optional | 9me | \$4,888 | |
| 1h41m/4h03m | Standard Battery Charger ¹ 15 Amp Battery Charger Upgrade Optional | 10me | \$8,403 | |
| 2h29m/5h44m | Standard Battery Charger ¹ 15 Amp Battery Charger Upgrade Optional | 11me | \$9,307 | |
| 2h52m/6h50m | 15 Amp Battery Charger Upgrade ¹ | 12me | \$12,380 | |
| 4h07m/9h27m | 15 Amp Battery Charger Upgrade ¹ | 13me | \$15,113 | |
| 5h52m/13h30m | 15 Amp Battery Charger Upgrade ¹ | 14me | \$18,548 | |
| 9h41m/22h18m | 15 Amp Battery Charger Upgrade ¹ | 15me | \$25,081 | |
| ¹ Order battery charc | per as part of LIPS. See page 3 1k-1 | | | |

¹Order battery charger as part of UPS. See page 3.1k-1.

| External Battery Accessories | | | |
|---|----------|-------|--|
| Option Order Number List Price | | | |
| External Battery Connector Extension (72") Also recommended for third-party external battery configurations. | BCS-0108 | \$131 | |

| External Maintenance Bypass Switches ¹ (Recommended for hardwired units) | | | |
|---|-----------------------------------|--------------|-------|
| UPS Input Voltage | Switch Type Order Number List F | | |
| 220 220 240 | MBB (Make Before Break) | BPE01MBB1A | \$663 |
| 220, 230, 240 | MBB, with AS/400 (iSeries) Option | BPE01MBBAS1A | \$690 |

¹ Bypass Switch must be mounted on the wall near the UPS.

QFE5.3kVA CTO Configuration Guide

Ferrups 5.3kVA 50Hz Tower General Specifications

| Capacity: | 5.3kVA/ 3.7W |
|-----------------|----------------|
| Input Voltage: | 220, 230, 240V |
| Output Voltage: | 220, 230, 240V |

Dimensions: (HxWxD) Weight (with batteries¹): Weight (without batteries): 29.5" x 15.5" x 25" 750mm x 395mm x 635mm 229kg / 505lb 131kg / 289lb

See Eaton® Ferrups® FE Series 50Hz Product Focus (ILP0368) for additional product specification.

1. Weights are approximate for standard batteries, option 0 for digit 4.

| Base Unit | | Digits 1-2 |
|--------------------------------------|----------------|------------|
| Base Model, Frequency, Cabinet Style | CTO Order Code | Base Price |
| QFE5.3kVA, 50 Hz Tower | FX | \$16,613 |

| | Input / Output Voltage | 9 | Digit 3 |
|---------------|------------------------|----------------|---------------------|
| Input Voltage | Output Voltage | CTO Order Code | Option Price |
| 220 | 220 | 4 | \$0 |
| 230 | 230 | 5 | \$0 |
| 240 | 240 | 6 | \$0 |

| Battery and Battery Charger | | | Digit 4 |
|--------------------------------------|--------------------------------------|---|---------|
| Battery Configuration | Option Price | | |
| 20 minute internal (50 m half load) | standard | 0 | \$1,254 |
| Set up for internal (less batteries) | standard | 3 | \$388 |
| set up for external battery pack | standard | 4 | \$0 |
| set up for external battery pack1 | 10 amp internal upgrade ² | 5 | \$270 |
| set up for external battery pack1 | 20 amp internal upgrade ³ | 7 | \$624 |

¹Order desired external battery pack as a separate line. See page 5.3k-3.

² Required for external battery packs 4fe – 5fe

³ Required for external battery packs 6fe – 7fe

| Internal Maintenance Bypass Switch | | Digit 5 |
|---|----------------|---------------------|
| Internal Maintenance Bypass Switch | CTO Order Code | Option Price |
| No internal maintenance bypass switch option ¹ | 0 | \$0 |
| Internal maintenance bypass switch option – MBB | 1 | \$825 |

¹ External maintenance bypass switch also available for hardwired systems.

Order desired maintenance bypass switch as a separate line item on your order. See page 5.3k-4.

QFE5.3kVA CTO Configuration Guide

| | Input Connection | | Digit 6 |
|------------------------|------------------|----------------|---------------------|
| Input Voltage Selected | Input Connection | CTO Order Code | Option Price |
| 220, 230, 240 volt | Hardwired | А | \$0 |

Output Connection

Digits 7-14

Designated by 8 digits within the unit CTO number. These eight digits allow selection of the type and quantity for up to four different types of receptacles.

- Up to four output slots available without internal maintenance bypass switch option.
- Up to four output slots available when internal maintenance bypass switch option is selected.
- For multiple quantities of one receptacle type, enter the type once with the total quantity (ex: B2 not B1B1).
- Always enter the receptacle types alphabetically (ex: B1C1 not C1B1).
- If hardwire output is desired, select type "A", quantity "0" for all receptacle types (ex: A0A0A0A0).
- If fewer than four types of receptacle are selected, complete the remaining receptacle digits with A0 (ex: B1C1A0A0).

| Output Voltage Required | Output Connection | CTO Order Code | | Option Price |
|---|--|----------------|--------------|---------------------|
| Output voltage Required | Output Connection | Туре | Qty | per Panel |
| | Hardwired ¹ | А | 0 | \$0 |
| 000,000, or 040 volt | 15 Amp / 2 pole Circuit Breaker ² | W | | \$60 |
| 220, 230, or 240 volt | 20 Amp / 2 pole Circuit Breaker ² | Y | | \$60 |
| | 30 Amp / 2 pole Circuit Breaker ² | 2 | | \$60 |
| Receptacle Output Connection | CTO Order Code _ | | | |
| Hardwire Output Connection C | TO Order Code <u>A</u> | <u>0 A 0 </u> | <u>A0 A0</u> | |
| ¹ Hardwired output requires hardwi | red input | | | |

² Internal maintenance bypass switch option required for circuit breaker output connections

| Internal Options | | Digit 15 |
|--|----------------|---------------------|
| Option | CTO Order Code | Option Price |
| DVR | В | \$0 |
| DVR and Anchor Kit for structural slab floor | I | \$323 |
| DVR and Anchor Kit for raised or access floor | J | \$323 |
| Neutral to Ground bond removal and DVR (For shipboard use) | R | \$25 |

QFE5.3kVA CTO Configuration Guide

External Options

External battery packs, bypass switches and other external options are not a part of the CTO number and will need to be ordered as separate line items. Some external options require that the UPS be configured for use with the option. More options are listed in the Additional External Options section of this guide.

| External Battery Packs | | | | |
|----------------------------------|--|--------------|------------|--|
| Runtime Full/Half | Battery Charger Required ¹ | Order Number | List Price | |
| 27m/1h14m | Standard Battery Charger ¹ 10 or 20 Amp Battery Charger Upgrade Optional | 1fe | \$6,038 | |
| 49m/2h10m | Standard Battery Charger ¹ 10 or 20 Amp Battery Charger Upgrade Optional | 2fe | \$8,456 | |
| 1h12m/3h08m | Standard Battery Charger ¹ 10 or 20 Amp Battery Charger Upgrade Optional | 3fe | \$9,371 | |
| 1h27m/3h39m | 10 Amp Battery Charger Upgrade ¹ 20 Amp Battery Charger Upgrade Optional | 4fe | \$12,494 | |
| 2h13m/5h11m | 10 Amp Battery Charger Upgrade ¹ 20 Amp Battery Charger Upgrade Optional | 5fe | \$15,269 | |
| 3h08m/7h22m | 20 Amp Battery Charger Upgrade ¹ | 6fe | \$18,379 | |
| 5h10m/12h10m | 20 Amp Battery Charger Upgrade ¹ | 7fe | \$25,382 | |
| ¹ Order hetter (cherr | rer on port of LIDC. Con page 5-21/1 | | | |

¹Order battery charger as part of UPS. See page 5.3k-1.

| External Maintenance Bypass Switches ¹ (Recommended for hardwired units) | | | |
|---|----------------------------------|--------------|------------|
| UPS Input Voltage | Switch Type | Order Number | List Price |
| 000 000 040 | MBB (Make Before Break) | BPE02MBB1A | \$909 |
| 220, 230, 240 volt | MBB with AS/400 (iSeries) Option | BPE02MBBAS1A | \$950 |

¹ Bypass Switch must be mounted on the wall near the UPS.

Additional Ferrups External Options

| Voltage Matching Transformers | | | | |
|---|--|--|--|--|
| 208V in – 120/240V out (required for applications using MBB bypass with source voltage of 208V) | | | | |
| Transformer Description For use with Ferrups models: Order Number List Price | | | | |
| 7.5kVA Transformer FJ, FK (5.3kVA - 7kVA) TRN-0239 \$2,219 | | | | |

| Caster Kits | | | |
|------------------------------|--------------|------------|--|
| For use with Ferrups models: | Order Number | List Price | |
| FV (3.1kVA) | CAA-0006 | \$199 | |

| Connectivity | | |
|--|---------------|------------|
| Option | Order Number | List Price |
| Hand-held Remote Control Panel with Cable | RCK-0007 | \$423 |
| IBM AS/400 (iSeries) Interface Kit – UPS w/o maintenance bypass switch | IPK-0001 | \$131 |
| Serial RS-232 CheckUPS Cable DB25M to DB9F | INT-0035 | \$67 |
| BestLink SNMP/WEB Adapter | 116750225-001 | \$388 |

Software

Arriving bundled with every Ferrups UPS is the Eaton Intelligent Power Software Suite. The software suite includes links to LanSafe and NetWatch software.



Eaton's latest release of our free LanSafe® software is fully supportive of the Ferrups product line. Ferrups customers can use LanSafe to deliver comprehensive UPS support including graceful, remote shutdown of UPS systems and network monitoring tools via a serial connection. The most recent release of LanSafe software is available for download on our website powerguality.eaton.com.

NetWatch Clients UPS software enables users to shutdown a server or workstation and acts as a network-monitoring tool through the BestLink SNMP/WEB Adapter that monitors and controls it. During an extended power outage, the SNMP/WEB adapter informs all registered NetWatch Clients that it is time to shut down their respective operating systems, thus preparing them for the removal of AC power.

Ferrups products are also compatible with the Eaton PowerXpert Software, geared toward end users with mostly Eaton power distribution products such as switchgear, UPSs, breakers, PDUs, RPPs, meters, and relays amongst others. PowerXpert has web based views including Trend Viewer, Layout Manager and Quality Manager Modules.

Additionally, the CheckUPS® Software Suite is available for download under legacy software at <u>powerquality.eaton.com</u>. This product remains in Eaton's portfolio and is still used in a number of applications but is not under further development.

For more information on Eaton software products, visit powerquality.eaton.com/Support/Software-Drivers

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Australia/NZ: 61.2.9878.5000 China: 86.21.6361.5599 HK/Korea/Taiwan: 852.2745.6682 India: 91.11.2649.9414 to 18 Singapore/SEA: 65.6829.8888

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