CTO Configuration Guide





Eaton[®] Ferrups[®] FE 60Hz Tower Series

April 2021

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Voltage Matching Transformers Caster Kits Connectivity Options Software

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.

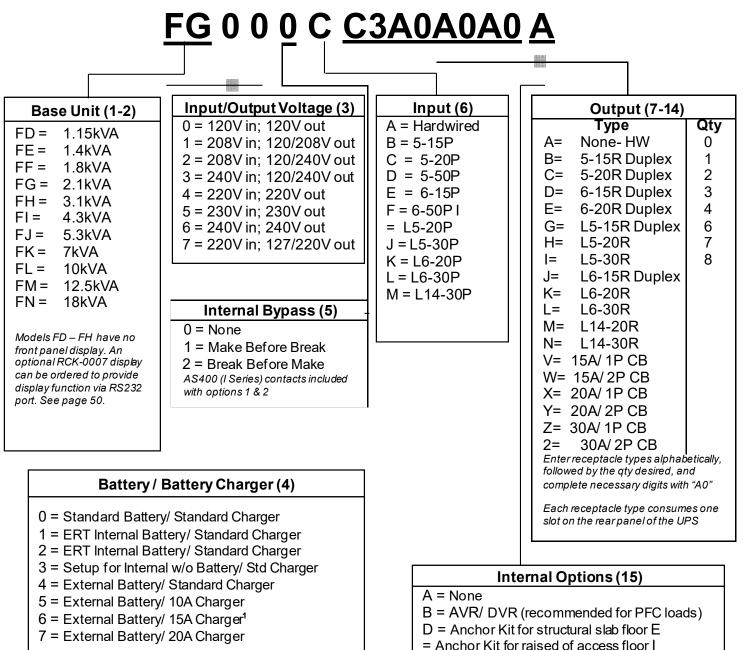
Sample CTO Number: FA000BB2A0A0A0A.

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

The UPS CTO Worksheet										
		UPS CTO Order 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 Selected	ed:									
External Maintenance Bypass	Swite	ch								
External Maintenance Bypass Switch S	Selecte	ed:								
Other External Options										
Note: Eaton offers a complete line of F visit our websites, powerquality.eaton.	Power com ar	Distri nd <u>ww</u>	buti w.ep	on l odu.	Units <u>com</u> ,	s (PDUs) . Plea for details.	ase c	contact your s	ales represe	entative or
						Sub To	otal			
									Freight	
									Insurance	
									Tax/Duty	
								C	Quote Total	

Ferrups 60Hz 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.



- = AVR/DVR with Anchor kit for slab
- J = AVR/DVR with Anchor kit for access floor
- Q = Neutral to ground bond removal (shipboard)
- R =Neutral to ground removed & AVR/DVR

Ferrups 1.15kVA 60Hz Tower General Specifications

Capacity: Input Voltage: Output Voltage: 1.15kVA/ 800W 120, 208, 220, 240 V 120, 120/208, 120/240, 240, 127/240 V Dimensions: (HxWxD) Weight (with batteries¹): Weight (without batteries): 15.1" x 15.2" x 20.2" 385mm x 390mm x 515mm 102lb / 46kg 92lb / 42kg

See Eaton® Ferrups® FE Series 60Hz Datasheet (LTP0368) for additional product specification. 1. Weights are approximate for standard batteries, option 0 for digit4.

Base Unit		Digits 1-2
Base Model, Frequency, Cabinet Style	CTO Order Code	Base Price
FE1.15kVA, 60 Hz Tower	FD	\$4,366

	Digit 3		
Input Voltage	Output Voltage	CTO Order Code	Base Price
120	120	0	\$0
208	120/208	1	\$130
208	120/240	2	\$130
240	120/240	3	\$130
240	240 (International Models)	6	\$130
220	127/220	7	\$130

Bat	Digit 4		
Battery Configuration	Battery Charger	CTO Order Code	Option Price
8 minute internal (22m half load)	standard	0	\$267
30 minute internal (85m half load)	standard	1	\$562
70 min internal (197m half load)	standard	2	\$660
Set up for internal (less batteries)	standard	3	\$83
set up for external battery pack ¹	standard	4	\$39

¹ Includes External Battery Connector. Order desired external battery pack as a separate line. See page 1.15k-3.

²Required for external battery pack 10me

Internal Maintenance Bypas	Digit 5	
Internal Maintenance Bypass Switch	CTO Order Code	Option Price
No internal maintenance bypass switch option available ¹	0	\$0
¹ External maintenance bypass switch available for hardwired systems. Or	der desired maintenanc	e bypass switch

'External maintenance bypass switch available for hardwired systems. Order desired maintenance bypass switch as a separate line item on your order. See page 1.15k-3.

	Input Connection		Digit 6
Input Voltage Selected	Input Connection	CTO Order Code	Option Price
Any	Hardwired ¹	А	\$41
100 1	5-15P w/6' Line Cord ²	В	\$ 0
120 volt	5-20P w/6' Line Cord ²	С	\$25 ³
	6-15P w/6' Line Cord	E	\$ 0
208, 220, 240	L6-20P w/6' Line Cord	К	\$60
	L6-30P w/6' Line Cord	L	\$60

¹Hardwired input requires hardwired output

²Cannot be used with 15 Amp battery charger

Output Connection

Digits 7-14

- Three output slots available when a NEMA 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 Pequired	Output Connection	CTO Or	der Code	Option Price
Output Voltage Required	Output Connection	Туре	Qty	per Panel
Any	Hardwired ¹	А		\$0
120 volt	5-15R Duplex	В		\$0
Choose up to three panels	5-20R Duplex (UL)	С		\$50
208, 220, or 240 volt	6-15R Duplex	D		\$75
Choose up to three panels	6-20R Duplex	E		\$75
120 volt	L5-15R Duplex	G		\$75
	L5-20R	Н		\$75
Choose up to three panels	L5-30R	I		\$75
	L6-15R Duplex	J		\$75
208, 220, or 240 volt	L6-20R	K		\$75
Choose up to three panels	L6-30R	L		\$75
120/240 volt	L14-20R	М		\$75
Choose up to three panels	L14-30R	Ν		\$75
Receptacle Output Connection CTO Order CodeA0Hardwire Output Connection CTO Order CodeA 0A 0A 0A 0A 0				
¹ Hardwired output requires hardw	ired input			

Internal Options		Digit 15
Option	CTO Order Code	Option Price
No other option	A	\$0
AVR (recommended when loads contain PFC power supplies)	B*	\$85
Anchor Kit for structural slab floor	D	\$170
Anchor Kit for raised or access floor	E	\$170
AVR and Anchor Kit for structural slab floor	*	\$255
AVR and Anchor Kit for raised or access floor	J*	\$255
Neutral to Ground bond removal (For Shipboard Use)	Q	\$25
Neutral to Ground bond removal and AVR (For Shipboard Use)	R*	\$110
*		

^{*}AVR board only available on the 120V (input) model. No AVR board on high voltage models.

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		
3h15m/9h11m	Standard Battery Charger ¹ 15 Amp Battery Charger Upgrade Optional	8me	\$4,751		
3h50m/10h50m	Standard Battery Charger ¹ 15 Amp Battery Charger Upgrade Optional	9me	\$5,187		
6h30m/18h23m	15 Amp Battery Charger Upgrade ¹	10me	\$8,916		
10					

¹Order battery charger as part of UPS. See page 1.15k-1.

External Battery Accessories				
Option	Order Number	List Price		
External Battery Connector Extension (72") Also recommended for third-party external battery configurations.	BCS-0108	\$142		

External Maintenance Bypass Switches ¹ (Recommended for hardwired units)					
UPS Input Voltage	Switch Type	Order Number	List Price		
400	MBB (Make Before Break)	BPE01MBB1A	\$704		
120	MBB, with AS/400 (iSeries) Option	BPE01MBBAS1A	\$733		
208, 220	BBM (Break Before Make)	BPE02BBM1A	\$966		
	BBM with AS/400 (iSeries) Option	BPE02BBMAS1A	\$1,009		
040	MBB (Make Before Break)	BPE02MBB1A	\$966		
240	MBB with AS/400 (iSeries) Option	BPE02MBBAS1A	\$1,009		
¹ Bypass Switch must be	mounted on the wall near the UPS.				

All Prices F.O.B. Raleigh, North Carolina U.S.A. in U.S. dollars. Product and pricing subject to change without notice. 1.15k - 3

Ferrups 1.4kVA 60Hz Tower General Specifications

Capacity: Input Voltage: Output Voltage: 1.4kVA/ 1.0kW 120, 208, 220, 240 V 120, 120/208, 120/240, 240, 127/240 V

Dimensions: (HxWxD) Weight (with batteries¹): Weight (without batteries): 15.1" x 15.2" x 20.2" 385mm x 390mm x 515mm 122lb / 55kg 106lb / 48kg

See Eaton® Ferrups® FE Series 60Hz Datasheet (LTP0368) 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
FE1.4kVA, 60 Hz Tower	FE	\$4,805

Input / Output Voltage			Digit 3
Input Voltage	Output Voltage	CTO Order Code	Base Price
120	120	0	\$0
208	120/208	1	\$130
208	120/240	2	\$130
240	120/240	3	\$130
240	240 (International Models)	6	\$130
220	127/220	7	\$130

Bat	Digit 4		
Battery Configuration	Option Price		
11 minute internal (31m half load)	standard	0	\$249
22 minute internal (62m half load)	standard	1	\$516
45 min internal (127m half load)	standard	2	\$630
Set up for internal (less batteries)	standard	3	\$75
set up for external battery pack ¹	standard	4	\$17

¹ Includes External Battery Connector. Order desired external battery pack as a separate line. See page 1.4k-3. ² Required for external battery pack 10me

Internal Maintenance Bypas	Digit 5			
Internal Maintenance Bypass Switch	Option Price			
No internal maintenance bypass switch option available ¹ 0		\$0		
¹ External 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.				

	Input Connection		Digit 6
Input Voltage Selected	Input Connection	CTO Order Code	Option Price
Any	Hardwired ¹	A	\$41
120 volt	5-15P w/6' Line Cord ²	В	\$ 0
	5-20P w/6' Line Cord ²	С	\$25 ³
208, 220, 240	6-15P w/6' Line Cord	E	\$ 0
	L6-20P w/6' Line Cord	К	\$60
	L6-30P w/6' Line Cord	L	\$60

¹Hardwired input requires hardwired output

²Cannot be used with 15 Amp battery charger

Output Connection

Digits 7-14

- 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 hard wire 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 Op		Option Price
Output Voltage Required	Output Connection	Туре	Qty	per Panel
Any	Hardwired ¹	А	0	\$0
120 volt	5-15R Duplex	В		\$0
Choose up to three panels	5-20R Duplex (UL)	С		\$50
208, 220, or 240 volt	6-15R Duplex	D		\$75
Choose up to three panels	6-20R Duplex	E		\$75
	L5-15R Duplex	G		\$75
120 volt	L5-20R	Н		\$75
Choose up to three panels	L5-30R	I		\$75
	L6-15R Duplex	J		\$75
208, 220, or 240 volt	L6-20R	К		\$75
Choose up to three panels	L6-30R	L		\$75
120/240 volt	L14-20R	М		\$75
Choose up to three panels	L14-30R	Ν		\$75
Receptacle Output Connection CTO Order CodeA 0Hardwire Output Connection CTO Order CodeA 0A 0A 0A 0A 0				
¹ Hardwired output requires hardw	¹ Hardwired output requires hardwired input			

Internal Options		Digit 15
Internal Options	CTO Order Code	Option Price
No other option	A*	\$0
AVR (recommended when loads contain PFC power supplies)	В	\$85
Anchor Kit for structural slab floor	D	\$170
Anchor Kit for raised or access floor	E	\$170
AVR and Anchor Kit for structural slab floor	l*	\$255
AVR and Anchor Kit for raised or access floor	J*	\$255
Neutral to Ground bond removal (For Shipboard Use)	Q	\$25
Neutral to Ground bond removal and AVR (For Shipboard Use)	R*	\$110
Neutral to Ground bond removal (For Shipboard Use)	Q R*	

AVR board only available on the 120V (input) model. No AVR board on high voltage models

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
2h20m/6h35m	Standard Battery Charger ¹ 15 Amp Battery Charger Upgrade Optional	8me	\$4,751
3h10m/8h57m	Standard Battery Charger ¹ 15 Amp Battery Charger Upgrade Optional	9me	\$5,187
5h20m/15h5m	15 Amp Battery Charger Upgrade ¹	10me	\$8,916
5h09m/11h30m	Standard Battery Charger ¹	11me	\$9,875
6h07m/14h06m	15 Amp Battery Charger Upgrade ¹	12me	\$13,135
8h30m/18h53m	15 Amp Battery Charger Upgrade ¹	13me	\$16,035
12h08m/27h06m	15 Amp Battery Charger Upgrade ¹	14me	\$19,679
18h52m/44h45m	15 Amp Battery Charger Upgrade ¹	15me	\$26,610
¹ Order battery charge	raspart of LIPS. See page 1.4k-1		

¹Order battery charger as part of UPS. See page 1.4k-1.

External Battery Accessories			
Option Order Number List Price			
External Battery Connector Extension (72") Also recommended for third-party external battery configurations.		\$142	

External Maintenance Bypass Switches ¹ (Recommended for hardwired units)				
UPS Input Voltage	Switch Type	Order Number	List Price	
100	MBB (Make Before Break)	BPE01MBB1A	\$704	
120	MBB, with AS/400 (iSeries) Option	BPE01MBBAS1A	\$733	
208, 220	BBM (Break Before Make)	BPE02BBM1A	\$966	
	BBM with AS/400 (iSeries) Option	BPE02BBMAS1A	\$1,009	
240	MBB (Make Before Break)	BPE02MBB1A	\$966	
	MBB with AS/400 (iSeries) Option	BPE02MBBAS1A	\$1,009	
¹ Purpage Switch must be mounted on the wall near the LIPS				

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

Ferrups 1.8kVA 60Hz Tower General Specifications

Capacity: 1.8kVA/1.25kW Input Voltage: 120, 208, 220, 240 V Output Voltage: 120, 120/208, 120/240, 240, 127/240 V Dimensions: (HxWxD) Weight (with batteries¹): Weight (without batteries): 21.2" x 15.25" x 22.9" 540mm x 390mm x 585mm 176lb / 80kg 120lb / 54kg

See Eaton[®] Ferrups[®] FE Series 60Hz Datasheet (LTP0368) 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
FE1.8kVA, 60 Hz Tower	FF	\$6,533

Input / Output Voltage			Digit 3
Input Voltage	Output Voltage	CTO Order Code	Base Price
120	120	0	\$0
208	120/208	1	\$145
208	120/240	2	\$145
240	120/240	3	\$145
240	240 (International Models)	6	\$145
220	127/220	7	\$145

Battery and Battery Charger			Digit 4
Battery Configuration	Battery Charger	CTO Order Code	Option Price
11 minute internal (30m half load)	standard	0	\$615
86 min internal (206m half load)	standard	1	\$1,136
Set up for internal (less batteries)	standard	3	\$210
set up for external battery pack ¹	standard	4	\$88

¹ Includes External Battery Connector. Order desired external battery pack as a separate line. See page 1.8k-4. ² Required for external battery packs 12me – 15me

Internal Maintenance Bypass Switch		Digit 5
Internal Maintenance Bypass Switch	CTO Order Code	Option Price
No internal maintenance bypass switch option available ¹	0	\$0
¹ External maintenance bypass switch available for hardwired systems.		

Order desired maintenance bypass switch as a separate line item on your order. See page 1.8k-4.

	Input Connection		Digit 6
Input Voltage Selected	Input Connection	CTO Order Code	Option Price
Any	Hard wired ¹	А	\$41
120 volt	5-20P w/6' Line Cord ²	С	\$ 0
	5-50P w/6' Line Cord	D	\$90
	L5-20P w/6' Line Cord ²	I	\$25
	L5-30P w/6' Line Cord ²	J	\$60
208, 220, 240	6-15P w/6' Line Cord ²	E	\$ 0
	L6-20P w/6' Line Cord	К	\$60
	L6-30P w/6' Line Cord	L	\$60

¹Hardwired input requires hardwired output

²Cannot be used with 15 Amp battery charger

Output Connection

Digits 7-14

- Three output slots available when a NEMA line cord isselected
- 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
Super Voltage Required	Output connection	Туре	Qty	per Panel
Any	Hardwired ¹	Α		\$0
120 volt	5-15R Duplex	В		\$50
Choose up to three panels	5-20R Duplex (UL)	С		\$50 ²
208, 220, or 240 volt	6-15R Duplex	D		\$75
Choose up to three panels	6-20R Duplex	E		\$75
120 volt Choose up to three panels	L5-15R Duplex	G		\$75
	L5-20R	Н		\$75
	L5-30R	I		\$75
	L6-15R Duplex	J		\$75
208, 220, or 240 volt	L6-20R	K		\$75
Choose up to three panels	L6-30R	L		\$75
120/240 volt	L14-20R	М		\$75
Choose up to three panels	L14-30R	Ν		\$75
Receptacle Output Connection Hardwire Output Connection (AO AO .	<u> </u>	
¹ Hardwired output requires hardwired input				

Internal Options		Digit 15
Internal Options	CTO Order Code	Option Price
DVR (recommended when loads contain PFC power supplies)	В	\$0
DVR and Anchor Kit for structural slab floor	Ι	\$195
DVR and Anchor Kit for raised or access floor	J	\$195
Neutral to Ground bond removal and DVR (For Shipboard Use)	R	\$25

External Options

External battery packs, bypass switches and other external options are not a part of the CTO number and 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
2h12m/4h53m	Standard Battery Charger ¹ 15 Amp Battery Charger Upgrade Optional	9me	\$5,187
3h38m/8h22m	Standard Battery Charger ¹ 15 Amp Battery Charger Upgrade Optional	10me	\$8,916
5h09m/11h30m	Standard Battery Charger ¹ 15 Amp Battery Charger Upgrade Optional	11me	\$9,875
6h07m/14h06m	15 Amp Battery Charger Upgrade ¹	12me	\$13,135
8h30m/18h53m	15 Amp Battery Charger Upgrade ¹	13me	\$16,035
12h08m/27h06m	15 Amp Battery Charger Upgrade ¹	14me	\$19,679
18h52m/44h45m	15 Amp Battery Charger Upgrade ¹	15me	\$26,610
¹ Order battery charger as part of UPS. See page 1.8k-1.			

External Battery Accessories			
Option Order Number List Price			
External Battery Connector Extension (72")	BCS-0108	\$142	
Also recommended for third-party external battery configurations.	Bee 9166	ΨΤΞΖ	

External Maintenance Bypass Switches ¹ (Recommended for hardwired units)				
UPS Input Voltage	Switch Type	Order Number	List Price	
400	MBB (Make Before Break)	BPE01MBB1A	\$704	
120	MBB, with AS/400 (iSeries) Option	BPE01MBBAS1A	\$733	
200, 220	BBM (Break Before Make)	BPE02BBM1A	\$966	
208, 220	BBM with AS/400 (iSeries) Option	BPE02BBMAS1A	\$1,009	
240	MBB (Make Before Break)	BPE02MBB1A	\$966	
240	MBB with AS/400 (iSeries) Option	BPE02MBBAS1A	\$1,009	

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

Ferrups 2.1kVA 60Hz Tower General Specifications

Capacity: Input Voltage: Output Voltage: 2.1kVA/1.5kW 120, 208, 220, 240 V 120, 120/208, 120/240, 240, 127/240 V

Dimensions: (HxWxD) Weight (with batteries¹): Weight (without batteries): 21.2" x 15.25" x 22.9" 540mm x 390mm x 585mm 188lb / 85kg 132lb / 60kg

See Eaton[®] Ferrups[®] FE Series 60Hz Datasheet (LTP0368) for additional product specification. 1. Weights are approximate for standard batteries, option 0 for digit4.

Base Unit		Digits 1-2
Base Model, Frequency, Cabinet Style	CTO Order Code	Base Price
FE2.1kVA, 60 Hz Tower	FG	\$7,300

Input / Output Voltage			Digit 3
Input Voltage	Output Voltage	CTO Order Code	Base Price
120	120	0	\$0
208	120/208	1	\$145
208	120/240	2	\$145
240	120/240	3	\$145
240	240 (International Models)	6	\$145
220	127/220	7	\$145

Battery and Battery Charger			Digit 4
Battery Configuration	Battery Charger	CTO Order Code	Option Price
9 minute internal (25m half load)	standard	0	\$626
66 min internal (163m half load)	standard	1	\$1,137
Set up for internal (less batteries)	standard	3	\$210
set up for external battery pack ¹	standard	4	\$88

¹Includes External Battery Connector

Order desired external battery pack as a separate line. See page 2.1k-4.

²Required for external battery packs 12me – 15me

Internal Maintenance Bypas	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 2.1k-4.

Input Connection			
Input Voltage Selected	Input Connection	CTO Order Code	Option Price
Any	Hard wired ¹	А	\$41
120 volt	5-20P w/6' Line Cord ²	С	\$ 0
	5-50P w/6' Line Cord	D	\$90
	L5-20P w/6' Line Cord ²	I	\$25
	L5-30P w/6' Line Cord ²	J	\$60
208, 220, 240	6-15P w/6' Line Cord ²	E	\$ 0
	L6-20P w/6' Line Cord	К	\$60
	L6-30P w/6' Line Cord	L	\$60

¹Hardwired input requires hardwired output

²Cannot be used with 15 Amp battery charger

Output Connection

Digits 7-14

- Three output slots available when a NEMA 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.

Output Voltage Required	Output Connection	CTO Order Code Opt		Option Price			
Output Voltage Required	Output Connection	Туре	Qty	per Panel			
Any	Hardwired ¹	А		\$0			
120 volt	5-15R Duplex	В		\$50			
Choose up to three panels	5-20R Duplex (UL)	С		\$50 ²			
208, 220, or 240 volt	6-15R Duplex	D		\$75			
Choose up to three panels	6-20R Duplex	E		\$75			
	L5-15R Duplex	G		\$75			
120 volt	L5-20R	Н		\$75			
Choose up to three panels	L5-30R	I		\$75			
	L6-15R Duplex	J		\$75			
208, 220, or 240 volt	L6-20R	К		\$75			
Choose up to three panels	L6-30R	L		\$75			
120/240 volt	L14-20R	М		\$75			
Choose up to three panels	L14-30R	Ν		\$75			
Receptacle Output Connection CTO Order CodeA0Hardwire Output Connection CTO Order CodeA0A0A0A0A0							
¹ Hardwired output requires hardw	ired input			¹ Hardwired output requires hardwired input			

Internal Options		Digit 15
Internal Options	CTO Order Code	Option Price
DVR (recommended when loads contain PFC power supplies)	В	\$0
DVR and Anchor Kit for structural slab floor	I	\$195
DVR and Anchor Kit for raised or access floor	J	\$195
Neutral to Ground bond removal and DVR (For Shipboard Use)	R	\$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.

External Battery Packs			
Runtime Full/Half	Runtime Full/Half Battery Charger Required ¹ Order Number		List Price
1h41m/3h54m	Standard Battery Charger ¹ 15 Amp Battery Charger Upgrade Optional	9me	\$5,187
2h50m/6h37m	Standard Battery Charger ¹ 15 Amp Battery Charger Upgrade Optional	10me	\$8,916
4h03m/9h10m	Standard Battery Charger ¹ 15 Amp Battery Charger Upgrade Optional	11me	\$9,875
4h46m/11h08m	15 Amp Battery Charger Upgrade ¹	12me	\$13,135
6h42m/15h04m	15 Amp Battery Charger Upgrade ¹	13me	\$16,035
9h33m/21h36m	15 Amp Battery Charger Upgrade ¹	14me	\$19,679
15h12m/36h28m	15 Amp Battery Charger Upgrade ¹	15me	\$26,610

¹Order battery charger as part of UPS. See page 2.1k-1.

External Battery Accessories				
Option Order Number List Price				
External Battery Connector Extension (72") Also recommended for third-party external battery configurations.	BCS-0108	\$142		

External Maintenance Bypass Switches ¹ (Recommended for hardwired units)				
UPS Input Voltage	UPS Input Voltage Switch Type Order Number			
100	MBB (Make Before Break)	BPE01MBB1A	\$704	
120	MBB, with AS/400 (iSeries) Option	BPE01MBBAS1A	\$733	
000 000	BBM (Break Before Make)	BPE02BBM1A	\$966	
208, 220	BBM with AS/400 (iSeries) Option	BPE02BBMAS1A	\$1,009	
040	MBB (Make Before Break)	BPE02MBB1A	\$966	
240	MBB with AS/400 (iSeries) Option	BPE02MBBAS1A	\$1,009	
¹ Bypass Switch must be	mounted on the wall near the UPS.			

Ferrups 3.1kVA 60Hz Tower General Specifications

Capacity: Input Voltage: Output Voltage: 3.1kVA/2.2kW 120, 208, 220, 240 V 120, 120/208, 120/240, 240, 127/240 V

Dimensions: (HxWxD) Weight (with batteries¹): Weight (without batteries): 21.2" x 15.25" x 22.9" 540mm x 390mm x 585mm 248lb / 112kg 144lb / 65kg

See Eaton[®] Ferrups[®] FE Series 60Hz Datasheet (LTP0368) for additional product specification. 1. Weights are approximate for standard batteries, option 0 for digit4.

Base Unit		Digits 1-2
Base Model, Frequency, Cabinet Style	CTO Order Code	Base Price
FE3.1kVA, 60 Hz Tower	FH	\$9,317

Input / Output Voltage			Digit 3
Input Voltage	Output Voltage	CTO Order Code	Base Price
120	120	0	\$0
208	120/208	1	\$145
208	120/240	2	\$145
240	120/240	3	\$145
240	240 (International Models)	6	\$145
220	127/220	7	\$145

Battery and Battery Charger			Digit 4
Battery Configuration	Battery Charger	CTO Order Code	Option Price
14 minute internal (35m half load)	standard	0	\$680
37 minute internal (98m half load)	standard	1	\$1,140
Set up for internal (less batteries)	standard	3	\$210
set up for external battery pack ¹	standard	4	\$88

¹Includes External Battery Connector

Order desired external battery pack as a separate line. See page 3.1k-3.

²Required for external battery packs 12me – 15me

Internal Maintenance Bypas	Digit 5	
Internal Maintenance Bypass Switch CTO Order		Option Price
No internal maintenance bypass switch option available ¹	0	\$0
¹ External maintenance bypass switch available for hardwired systems.		

Order desired maintenance bypass switch as a separate line item on your order. See page 3.1k-4.

	Input Connection		Digit 6
Input Voltage Selected	Input Connection	CTO Order Code	Option Price
Any	Hard wired ¹	A	\$41
120 volt	5-50P w/6' Line Cord	D	\$90
	L5-30P w/6' Line Cord ²	J	\$0
	6-15P w/6' Line Cord ^{2,3}	E	\$ 0
208, 220, 240	L6-20P w/6' Line Cord ²	K	\$60
	L6-30P w/6' Line Cord	L	\$60

¹Hardwired input requires hardwired output

²Cannot be used with 15 Amp battery charger

³Cannot be used with 208 volt input

Output Connection

Digits 7-14

Output Connection Configuration

- Three output slots available when a NEMA 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 Beguired	Output Connection	CTO Order Code Option	Option Price	
Output Voltage Required	Output Connection	Туре	Qty	per Panel
Any	Hardwired ¹	А	0	\$0
120 volt	5-15R Duplex	В		\$50
Choose up to three panels	5-20R Duplex (UL)	С		\$50 ²
208, 220, or 240 volt	6-15R Duplex	D		\$75
Choose up to three panels	6-20R Duplex	E		\$75
	L5-15R Duplex	G		\$75
120 volt	L5-20R	Н		\$75
Choose up to three panels	L5-30R	I		\$75
	L6-15R Duplex	J		\$75
208, 220, or 240 volt Choose up to three panels	L6-20R	К		\$75
Choose up to three parlets	L6-30R	L		\$75
120/240 volt	L14-20R	М		\$75
Choose up to three panels	L14-30R	Ν		\$75
Receptacle Output Connection CTO Order CodeAA0Hardwire Output Connection CTO Order CodeAAA0				
¹ Hardwired output requires hardwired input				

Internal Options		Digit 15
Internal Options	CTO Order Code	Option Price
DVR (recommended when loads contain PFC power supplies)	В	\$0
DVR and Anchor Kit for structural slab floor	I	\$195
DVR and Anchor Kit for raised or access floor	J	\$195
Neutral to Ground bond removal and DVR (For Shipboard Use)	R	\$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 thisguide.

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	\$5,187	
1h41m/4h03m	Standard Battery Charger ¹ 15 Amp Battery Charger Upgrade Optional	10me	\$8,916	
2h29m/5h44m	Standard Battery Charger ¹ 15 Amp Battery Charger Upgrade Optional	11me	\$9,875	
2h52m/6h50m	15 Amp Battery Charger Upgrade ¹	12me	\$13,135	
4h07m/9h27m	15 Amp Battery Charger Upgrade ¹	13me	\$16,035	
5h52m/13h30m	15 Amp Battery Charger Upgrade ¹	14me	\$19,679	
9h41m/22h18m	15 Amp Battery Charger Upgrade ¹	15me	\$26,610	
¹ Order battery charge	r as part of UPS. See page 3.1k-1.			

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

External Battery Accessories				
Option Order Number List Pric				
External Battery Connector Extension (72") Also recommended for third-party external battery configurations.	BCS-0108	\$142		

External Maintenance Bypass Switches ¹ (Recommended for hardwired units)				
UPS Input Voltage	UPS Input Voltage Switch Type Order Number			
4002	MBB (Make Before Break)	BPE01MBB1A	\$704	
120 ²	MBB, with AS/400 (iSeries) Option	BPE01MBBAS1A	\$733	
208, 220	BBM (Break Before Make)	BPE02BBM1A	\$966	
	BBM with AS/400 (iSeries) Option	BPE02BBMAS1A	\$1,009	
240	MBB (Make Before Break)	BPE02MBB1A	\$966	
	MBB with AS/400 (iSeries) Option	BPE02MBBAS1A	\$1,009	

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

 2 Use 240 volt maintenance by pass switch if 15 Amp battery charger is selected. See page 3.1k-1.

Product and pricing subject to change without notice.

Ferrups 4.3kVA 60Hz Tower General Specifications

Capacity:	4.3kVA/3.0kW	Dimensions:
Input Voltage:	120, 208, 220, 240 V	(HxWxD)
Output Voltage:	120, 120/208, 120/240,	()
Output voltage.		Weight (with batte
	240	Weight (without ba

eries¹): patteries): 29.5" x 15.5" x 25" 750mm x 395mm x 635mm 348lb / 158kg 243lb / 110kg

See Eaton® Ferrups® FE Series 60Hz Datasheet (LTP0368) 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
FE4.3kVA, 60 Hz Tower	FI	\$13,953

	Digit 3		
Input Voltage	Output Voltage	CTO Order Code	Base Price
120	120	0	\$279
208	120/208	1	\$0
208	120/240	2	\$0
240	120/240	3	\$0
220	220	4	\$279
240	240 (International Models)	6	\$0

Batt	Digit 4		
Battery Configuration	Option Price		
10 minute internal (24 m half load)	standard	0	\$673
27 minute internal (66 m half load)	standard	1	\$1,209
Set up for internal (less batteries)	standard	3	\$216
set up for external battery pack	standard	4	\$0
set up for external battery pack ¹	10 amp internal upgrade ²	5	\$270
set up for external battery pack ¹	20 amp internal upgrade ³	7	\$624

¹ Order desired external battery pack as a separate line. See page 4.3k-4.

² Required for external battery packs 4fe – 5fe

³ Required for external battery packs 6fe – 7fe

Internal Maintenance Bypas	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 ²	1	\$725
Internal maintenance bypass switch option - BBM	2	\$625

AS/400 (iSeries) contacts included with Options 1 and 2.

¹External maintenance bypass switch also available for hardwired systems.

Order desired maintenance bypass switch as a separate line item on your order. See page 4.3k-4.

²Cannot be used with 208 or 220 input voltage.

Product and pricing subject to change without notice.

	Input Connection		Digit 6
Input Voltage Selected	Input Connection	CTO Order Code	Option Price
Any	Hardwired	A	\$0
120 volt	5-50P w/6' Line Cord	D	\$120
	6-50P w/6' Line Cord ¹	F	\$120
208, 220, 240 volt	L6-30P w/6' Line Cord ¹	L	\$100
	L14-30 w/6' Line Cord ²	М	\$125

¹Cannot be used with internal maintenance bypass switch. ²UPS must have internal maintenance bypass switch.

Output Connection

Digits 7-14

- Four output slots available.
- 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).

		CTO Or	der Code	Option Price
Output Voltage Required	Output Connection	Туре	Qty	per Panel
Any	Hardwired ¹	А	0	\$0
400 11	5-15R Duplex	В		\$50
120 volt	5-20R Duplex (UL)	С		\$50
200, 220, an 240 welt	6-15R Duplex	D		\$75
208, 220, or 240 volt	6-20R Duplex	E		\$75
	L5-15R Duplex	G		\$75
120 volt	L5-20R	Н		\$75
	L5-30R	I		\$75
	L6-15R Duplex	J		\$75
208, 220, or 240 volt	L6-20R	K		\$75
	L6-30R	L		\$75
120/240 volt	L14-20R	М		\$75
120/240 volt	L14-30R	Ν		\$75
120 volt	15 Amp / 1 pole Circuit Breaker ²	V		\$60
All voltages except 120 volt	15 Amp / 2 pole Circuit Breaker ²	W		\$60
120 volt	20 Amp / 1 pole Circuit Breaker ²	Х		\$60
All voltages except 120 volt	20 Amp / 2 pole Circuit Breaker ²	Y		\$60
120 volt	30 Amp / 1 pole Circuit Breaker ²	Z		\$60
All voltages except 120 volt	30 Amp / 2 pole Circuit Breaker ²	2		\$60
Receptacle Output Connection CTO Order Code $\overline{A0}$ $\overline{A0}$ $\overline{A0}$ $\overline{A0}$ $\overline{A0}$ Hardwire Output Connection CTO Order Code $\overline{A0}$ $\overline{A0}$ $\overline{A0}$ $\overline{A0}$				
¹ Hardwired output requires hardwired input ² Internal maintenance bypass switch option required for circuit breaker output connections				

Internal Options		Digit 15
Internal Options	CTO Order Code	Option Price
DVR (recommended when loads contain PFC power supplies)	В	\$0
DVR and Anchor Kit for structural slab floor		\$323
DVR and Anchor Kit for raised or access floor	J	\$323
Neutral to Ground bond removal and DVR (For shipboard use)	R	\$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.

External Battery Packs			
Runtime Full/Half	Battery Charger Required ¹	Order Number	List Price
40m/1h42m	Standard Battery Charger ¹ 10 or 20 Amp Battery Charger Upgrade Optional	1fe	\$6,407
1h11m/2h51m	Standard Battery Charger ¹ 10 or 20 Amp Battery Charger Upgrade Optional	2fe	\$8,972
1h49m/4h5m	Standard Battery Charger ¹ 10 or 20 Amp Battery Charger Upgrade Optional	3fe	\$9,943
2h6m/4h49m	10 Amp Battery Charger Upgrade ¹ 20 Amp Battery Charger Upgrade Optional	4fe	\$13,256
3h4m/6h46m	10 Amp Battery Charger Upgrade ¹ 20 Amp Battery Charger Upgrade Optional	5fe	\$16,200
4h27m/9h39m	20 Amp Battery Charger Upgrade ¹	6fe	\$19,499
7h12m/15h56m	20 Amp Battery Charger Upgrade ¹	7fe	\$26,929
¹ Order battery char	ger as part of UPS. See page 4.3k-1.		

External Maintenance Bypass Switches ¹ (Recommended for hardwired units)			
UPS Input Voltage	Switch Type	Order Number	List Price
200, 220 volt	BBM (Break Before Make)	BPE02BBM1A	\$966
208, 220 volt	BBM with AS/400 (iSeries) Option	BPE02BBMAS1A	\$1,009
120, 240 volt	MBB (Make Before Break)	BPE02MBB1A	\$966
	MBB with AS/400 (iSeries) Option	BPE02MBBAS1A	\$1,009

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

Ferrups 5.3kVA 60Hz Tower General Specifications

Capacity:	5.3kVA/ 3.7kW	Dimensions:	29.5" x 15.5" x 25"
Input Voltage:	120, 208, 220, 240 V	(HxWxD)	750mm x 395mm x 635mm
Output Voltage:	120, 120/208, 120/240,	Weight (with batteries ¹):	484lb / 220kg
	240	Weight (without batteries):	268lb / 122kg

See Eaton® Ferrups® FE Series 60Hz Datasheet (LTP0368) 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
FE5.3kVA, 60 Hz Tower	FJ	\$15,357

Input / Output Voltage			Digit 3
Input Voltage	Output Voltage	CTO Order Code	Base Price
120	120	0	\$279
208	120/208	1	\$0
208	120/240	2	\$0
240	120/240	3	\$0
220	220	4	\$279
240	240 (International Models)	6	\$0

Battery and Battery Charger			Digit 4
Battery Configuration Battery Charger CTO Order Code			Option Price
20 minute internal (50 m half load)	standard	0	\$1,166
Set up for internal (less batteries)	standard	3	\$388
set up for external battery pack	standard	4	\$0
set up for external battery pack ¹	10 amp internal upgrade ²	5	\$270
set up for external battery pack ¹	20 amp internal upgrade ³	7	\$624

¹ Order desired external battery pack as a separate line. See page 5.3k-4.

² Required for external battery packs 4fe – 5fe

³ Required for external battery packs 6fe – 7fe

Internal Maintenance Bypas	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 ²	1	\$825
Internal maintenance bypass switch option - BBM	2	\$725

AS/400 (iSeries) contacts included with Options 1 and 2.

¹ External maintenance bypass switch also available for hardwired systems.

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

² Cannot be used with 208 or 220 input voltage.

	Input Connection		Digit 6
Input Voltage Selected	Input Connection	CTO Order Code	Option Price
Any	Hardwired	А	\$0
120 volt	5-50P w/6' Line Cord ¹	D	\$120
	6-50P w/6' Line Cord ⁴	F	\$120
208, 220, 240 volt	L6-30P w/6' Line Cord ^{2,3,4}	L	\$100
	L14-30 w/6' Line Cord ^{2,3,5}	М	\$125

¹Cannot be used with 10 or 20 Amp battery charger. ²Cannot be used with 208 volt and 20 Amp battery charger. ³Cannot be used with 220 volt and 20 Amp battery charger. ⁴Cannot be used with internal maintenance bypass switch.

⁵UPS must have internal maintenance bypass switch.

Output Connection

Digits 7-14

- Four output slots available.
- 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 Voltogo Doguirod	Quitaut Connection	CTO Order Code Optic		Option Price
Output Voltage Required	Output Connection	Туре	Qty	per Panel
Any	Hardwired ¹	А	0	\$0
400	5-15R Duplex	В		\$50
120 volt	5-20R Duplex (UL)	С		\$50
200, 220, an 240 yelt	6-15R Duplex	D		\$75
208, 220, or 240 volt	6-20R Duplex	E		\$75
	L5-15R Duplex	G		\$75
120 volt	L5-20R	Н		\$75
	L5-30R	I		\$75
	L6-15R Duplex	J		\$75
208, 220, or 240 volt	L6-20R	K		\$75
	L6-30R	L		\$75
120/240 volt	L14-20R	М		\$75
120/240 VOIL	L14-30R	Ν		\$75
120 volt	15 Amp / 1 pole Circuit Breaker ²	V		\$60
All voltages except 120 volt	15 Amp / 2 pole Circuit Breaker ²	W		\$60
120 volt	20 Amp / 1 pole Circuit Breaker ²	Х		\$60
All voltages except 120 volt	20 Amp / 2 pole Circuit Breaker ²	Y		\$60
120 volt	30 Amp / 1 pole Circuit Breaker ²	Z		\$60
All voltages except 120 volt	30 Amp / 2 pole Circuit Breaker ²	2		\$60
Receptacle Output Connection Hardwire Output Connection C		0 A 0	Ā0 Ā0	
¹ Hardwired output requires ha ² Internal maintenance bypass	rdwired input switch option required for circuit brea	aker output	t connectic	ons

Internal Options		Digit 15
Internal Options	CTO Order Code	Option Price
DVR (recommended when loads contain PFC power supplies)	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

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	\$6,407
49m/2h10m	Standard Battery Charger ¹ 10 or 20 Amp Battery Charger Upgrade Optional	2fe	\$8,972
1h12m/3h8m	Standard Battery Charger ¹ 10 or 20 Amp Battery Charger Upgrade Optional	3fe	\$9,943
1h27m/3h39m	10 Amp Battery Charger Upgrade ¹ 20 Amp Battery Charger Upgrade Optional	4fe	\$13,256
2h13m/5h11m	10 Amp Battery Charger Upgrade ¹ 20 Amp Battery Charger Upgrade Optional	5fe	\$16,200
3h8m/7h22m	20 Amp Battery Charger Upgrade ¹	6fe	\$19,499
5h10m/12h10m	20 Amp Battery Charger Upgrade ¹	7fe	\$26,929
¹ Ordenbettem (alsonne)	r as part of LIDS. Soo page 5.2k 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	nput Voltage Switch Type Order Number List F		
120 volt	MBB (Make Before Break)	BPE04MBB1A	\$1,277
209, 220 volt	BBM (Break Before Make)	BPE02BBM1A	\$966
208, 220 volt	BBM with AS/400 (iSeries) Option	BPE02BBMAS1A	\$1,009
240 volt	MBB (Make Before Break)	BPE02MBB1A	\$966
	MBB with AS/400 (iSeries) Option	BPE02MBBAS1A	\$1,009

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

Ferrups 7.0kVA 60Hz Tower General Specifications

Capacity: Input Voltage: Output Voltage: 7.0kVA/ 5.0kW 120, 208, 220, 240 V 120, 220, 120/208, 120/240, 240

Dimensions: (HxWxD) Weight (with batteries¹): Weight (without batteries): 36.5" x 19.0" x 32.0" 930mm x 485mm x 815mm 578lb / 262kg 362lb / 164kg

See Eaton $^{\circ}$ Ferrups $^{\circ}$ FE Series 60Hz Datasheet (LTP0368) 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
FE7kVA, 60 Hz Tower	FK	\$19,902

Input / Output Voltage			Digit 3
Input Voltage	Output Voltage	CTO Order Code	Base Price
120	120	0	\$279
208	120/208	1	\$0
208	120/240	2	\$0
240	120/240	3	\$0
220	220	4	\$279
240	240 (International Models)	6	\$0

Batt	Digit 4		
Battery Configuration	CTO Order Code	Option Price	
12 minute internal (33 m half load)	standard	0	\$1,126
18 minute internal (50 m half load)	standard	1	\$1,690
Set up for internal (less batteries)	standard	3	\$388
set up for external battery pack	standard	4	\$0
set up for external battery pack ¹	10 amp internal upgrade ²	5	\$270
set up for external battery pack ¹	20 amp internal upgrade ³	7	\$624

¹Order desired external battery pack as a separate line. See page 7k-3.

²Required for external battery packs 4fe – 5fe

³Required for external battery packs 6fe - 7fe

Internal Maintenance Bypas	Digit 5	
Internal Maintenance Bypass Switch CTO Order C		Option Price
No internal maintenance bypass switch option ¹	0	\$0
Internal maintenance bypass switch option – MBB ²	1	\$900
Internal maintenance bypass switch option - BBM	2	\$800

AS/400 (iSeries) contacts included with Options 1 and 2.

¹External maintenance bypass switch also available for hardwired systems.

Order desired maintenance bypass switch as a separate line item on your order. See page 7k-3.

²Cannot be used with 208 or 220 voltinput

Product and pricing subject to change without notice.

Input Connection		Digit 6
Input Connection	CTO Order Code	Option Price
Hardwired	A	\$0
6-50P w/6' Line Cord ¹	F	\$120
	Input Connection Hardwired	Input Connection CTO Order Code Hardwired A

¹Cannot be used with internal maintenance bypass switch.

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 by pass switch option.
- Up to eight 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).

		CTO Or	der Code	Option Price
Output Voltage Required	Output Connection	Туре	Qty	per Panel
Any	Hardwired ¹	А	0	\$0
	5-15R Duplex	В		\$50
120 volt	5-20R Duplex (UL)	С		\$50
000 000 040 1	6-15R Duplex	D		\$75
208, 220, or 240 volt	6-20R Duplex	E		\$75
	L5-15R Duplex	G		\$75
120 volt	L5-20R	Н		\$75
	L5-30R	Ι		\$75
	L6-15R Duplex	J		\$75
208, 220, or 240 volt	L6-20R	K		\$75
	L6-30R	L		\$75
400/040	L14-20R	М		\$75
120/240 volt	L14-30R	Ν		\$75
120 volt	15 Amp / 1 pole Circuit Breaker ²	V		\$60
All voltages except 120 volt	15 Amp / 2 pole Circuit Breaker ²	W		\$60
120 volt	20 Amp / 1 pole Circuit Breaker ²	Х		\$60
All voltages except 120 volt	20 Amp / 2 pole Circuit Breaker ²	Y		\$60
120 volt	30 Amp / 1 pole Circuit Breaker ²	Z		\$60
All voltages except 120 volt	30 Amp / 2 pole Circuit Breaker ²	2		\$60
Receptacle Output Connection Hardwire Output Connection C	TO Order Code Ā	0 Ā 0	A0 A0	
¹ Hardwired output requires hardw ² Internal maintenance bypass swi	ired input tch option required for circuit breaker out		tions	

Internal maintenance by pass switch option required for circuit breaker output connections

Internal Options		Digit 15
Internal Options	CTO Order Code	Option Price
DVR (recommended when loads contain PFC power supplies)	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

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
34m/1h28m	Standard Battery Charger ¹ 10 or 20 Amp Battery Charger Upgrade Optional	2fe	\$8,972
48m/2h13m	Standard Battery Charger ¹ 10 or 20 Amp Battery Charger Upgrade Optional	3fe	\$9,943
60m/2h33m	10 Amp Battery Charger Upgrade ¹ 20 Amp Battery Charger Upgrade Optional	4fe	\$13,256
1h32m/3h41m	10 Amp Battery Charger Upgrade ¹ 20 Amp Battery Charger Upgrade Optional	5fe	\$16,200
2h16m/5h14m	20 Amp Battery Charger Upgrade ¹	6fe	\$19,499
3h45m/8h39m	20 Amp Battery Charger Upgrade ¹	7fe	\$26,929
¹ Order battery charg	ger as part of UPS. See page 7k-1.		

External Maintenance Bypass Switches ¹ (Recommended for hardwired units)			
UPS Input Voltage	Switch Type	Order Number	List Price
120 volt	MBB (Make Before Break)	BPE04MBB1A	\$1,277
200, 220 volt	BBM (Break Before Make)	BPE02BBM1A	\$966
208, 220 volt	BBM with AS/400 (iSeries) Option	BPE02BBMAS1A	\$1,009
040	MBB (Make Before Break)	BPE02MBB1A	\$966
240 volt	MBB with AS/400 (iSeries) Option	BPE02MBBAS1A	\$1,009

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

Ferrups 10.0kVA 60Hz Tower General Specifications

Capacity: Input Voltage: Output Voltage: 10.0kVA/ 7.5kW 208, 240 V 120/208, 120/240, 240 Dimensions: (HxWxD) Weight (with batteries): Weight (without batteries):

36.5" x 19.0" x 32.0" 930mm x 485mm x 815mm N/A

442lb / 200kg

See Eaton $^{\otimes}$ Ferrups $^{\otimes}$ FE Series 60Hz Datasheet (LTP0368) for additional product specification.

Base Unit		Digits 1-2
Base Model, Frequency, Cabinet Style	CTO Order Code	Base Price
FE10kVA, 60 Hz Tower	FL	\$23,466

Input / Output Voltage			Digit 3
Input Voltage	Output Voltage	CTO Order Code	Base Price
208	120/208	1	\$0
208	120/240	2	\$0
240	120/240	3	\$0
240	240 (International Models)	6	\$0

Battery and Battery Charger			Digit 4
Battery Configuration	Battery Charger	CTO Order Code	Option Price
set up for external battery pack ¹	standard	4	\$0
set up for external battery pack ¹	10 amp internal upgrade ²	5	\$435
set up for external battery pack ¹	20 amp internal upgrade ³	7	\$775

¹Order desired external battery pack as a separate line. If UPS is to be used with other than a Ferrups battery pack, also order DC Disconnect DCU-0001. See page 10k-3.

²Required for external battery packs 12fe – 13fe

³Required for external battery packs 14fe – 15fe

Internal Maintenance Bypass Switch		Digit 5
Internal Maintenance Bypass Switch	CTO Order Code	Option Price
No internal maintenance bypass switch option ^{1,2}	0	\$0
Internal maintenance bypass switch option – MBB ³	1	\$900
Internal maintenance bypass switch option - BBM	2	\$800

AS/400 (iSeries) contacts included with Options 1 and 2.

¹ Internal maintenance bypass switch required for receptacle or circuit breaker output connections.

² External maintenance bypass switch also available. Order desired maintenance bypass switch as a separate line item on your order. See page 10k-3.

³Cannot be used with 208 or 220 voltinput

	Input Connection ¹		Digit 6
Input Voltage Selected	Input Connection	CTO Order Code	Option Price
Any	Hardwired	А	\$0
¹ Line Cord input connection not availa	ble for 10kVA models		

Output Connection

Digits 7-14

- Internal maintenance by pass switch required for receptacle or circuit breaker output connections.
- Up to eight 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 Voltogo Doguirod	Output Connection ¹	CTO Or	der Code	Option Price
Output Voltage Required	Output connection	Туре	Qty	per Panel
Any	Hardwired	А	0	\$0
400 1	5-15R Duplex	В		\$50
120 volt	5-20R Duplex (UL)	С		\$50
000,000, an 040 welt	6-15R Duplex	D		\$75
208, 220, or 240 volt	6-20R Duplex	E		\$75
	L5-15R Duplex	G		\$75
120 volt	L5-20R	Н		\$75
	L5-30R	I		\$75
	L6-15R Duplex	J		\$75
208, 220, or 240 volt	L6-20R	K		\$75
	L6-30R	L		\$75
400/040	L14-20R	М		\$75
120/240 volt	L14-30R	N		\$75
120 volt	15 Amp / 1 pole Circuit Breaker	V		\$60
All voltages except 120 volt	15 Amp / 2 pole Circuit Breaker	W		\$60
120 volt	20 Amp / 1 pole Circuit Breaker	Х		\$60
All voltages except 120 volt	20 Amp / 2 pole Circuit Breaker	Y		\$60
120 volt	30 Amp / 1 pole Circuit Breaker	Z		\$60
All voltages except 120 volt	30 Amp / 2 pole Circuit Breaker	2		\$60
Receptacle Output Connection Hardwire Output Connection		0 Ā 0	Ā0 Ā0	
¹ Internal maintenance bypass sw	itch required for receptacle or circuit brea	ker output c	onnections	

Internal Options			
Internal Options	CTO Order Code	Option Price	
DVR (recommended when loads contain PFC power supplies)	В	\$0	
DVR and Anchor Kit for structural slab floor ¹	I	\$300	
DVR and Anchor Kit for raised or access floor ¹	J	\$300	
Neutral to Ground bond removal and DVR (For shipboard use)	R	\$25	

1. Anchor Kits cannot be used with Floor Saver Battery Option

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
11m/26m	Standard Battery Charger ¹ 10 or 20 Amp Battery Charger Upgrade Optional	EBPS10F	\$7,101
27m/1h10m	Standard Battery Charger ¹ 10 or 20 Amp Battery Charger Upgrade Optional	8fe	\$9,859
41m/1h48m	Standard Battery Charger ¹ 10 or 20 Amp Battery Charger Upgrade Optional	9fe	\$12,995
1h13m/2h59m	Standard Battery Charger ¹ 10 or 20 Amp Battery Charger Upgrade Optional	10fe	\$19,783
1h51m/4h16m	Standard Battery Charger ¹ 10 or 20 Amp Battery Charger Upgrade Optional	11fe	\$21,936
2h09m/5h02m	10 Amp Battery Charger Upgrade ¹ 20 Amp Battery Charger Upgrade Optional	12fe	\$29,460
3h07m/7h04m	10 Amp Battery Charger Upgrade ¹ 20 Amp Battery Charger Upgrade Optional	13fe	\$37,565
4h26m/10h04m	20 Amp Battery Charger Upgrade ¹	14fe	\$43,617
7h20m/16h38m	20 Amp Battery Charger Upgrade ^{1,2}	15fe	\$63,359

¹Order battery charger as part of UPS. See page 10k-1.

²Eaton has announced the End of Life of this Ferrups option. Product will be available while supplies last.

External Battery Accessories		
Option	Order Number	List Price
External DC Disconnect Required for all non-Ferrups battery packs.	DCU-0001	\$1,015

External Maintenance Bypass Switches ¹ (Recommended for hardwired units)			
UPS Input Voltage	Switch Type	Order Number	List Price
	BBM (Break Before Make)	BPE04BBM1A	\$1,153
208, 220, 240 volt	BBM with AS/400 (iSeries) Option	BPE04BBMAS1A	\$1,175
	MBB (Make Before Break)	BPE04MBB1A	\$1,277
240 volt			

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

Ferrups 12.5kVA 60Hz Tower General Specifications

Capacity: Input Voltage: Output Voltage: 12.5kVA/ 10.0kW 208, 240 V 120/208, 120/240, 240 Dimensions: (HxWxD) Weight (with batteries): Weight (without batteries):

36.5" x 19.0" x 32.0" 930mm x 485mm x 815mm N/A 505lb / 229kg

See Eaton® Ferrups® FE Series 60Hz Datasheet (LTP0368) for additional product specification.

Base Unit		Digits 1-2
Base Model, Frequency, Cabinet Style	CTO Order Code	Base Price
FE12.5kVA, 60 Hz Tower	FM	\$25,056

	Input / Output Voltag	е	Digit 3
Input Voltage	Output Voltage	CTO Order Code	Base Price
208	120/208	1	\$0
208	120/240	2	\$0
240	120/240	3	\$0
240	240 (International Models)	6	\$0

Battery and Battery Charger			Digit 4
Battery Configuration	Battery Charger	CTO Order Code	Option Price
set up for external battery pack ¹	standard	4	\$0
set up for external battery pack ¹	10 amp internal upgrade ²	5	\$435
set up for external battery pack ¹	20 amp internal upgrade ³	7	\$775

¹Order desired external battery pack as a separate line. If UPS is to be used with other than a Ferrups battery pack, also order DC Disconnect DCU-0001. See page 12.5k-3.

²Required for external battery packs 12fe – 13fe

³Required for external battery packs 14fe – 15fe

Internal Maintenance Bypass Switch		Digit 5
Internal Maintenance Bypass Switch	CTO Order Code	Option Price
No internal maintenance bypass switch option ^{1,2}	0	\$0
Internal maintenance bypass switch option – MBB ³	1	\$900
Internal maintenance bypass switch option - BBM	2	\$800

AS/400 (iSeries) contacts included with Options 1 and 2.

¹ Internal maintenance bypass switch required for receptacle or circuit breaker output connections.

² External maintenance bypass switch also available. Order desired maintenance bypass switch as a separate line item on your order. See page 12.5k-3.

³Cannot be used with 208 or 220 voltinput

	Input Connection ¹		Digit 6
Input Voltage Selected	Input Connection	CTO Order Code	Option Price
Any	Hardwired	А	\$0
¹ Line Cord input connection not available	ble for 12.5kVA models		

Output Connection

Digits 7-14

- Internal maintenance by pass switch required for receptacle or circuit breaker output connections.
- Up to eight 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 Voltogo Doguirod	Output Connection ¹	CTO Or	der Code	Option Price
Output Voltage Required	Output connection	Туре	Qty	per Panel
Any	Hardwired	А	0	\$0
400 1	5-15R Duplex	В		\$50
120 volt	5-20R Duplex (UL)	С		\$50
000,000, an 040 welt	6-15R Duplex	D		\$75
208, 220, or 240 volt	6-20R Duplex	E		\$75
	L5-15R Duplex	G		\$75
120 volt	L5-20R	Н		\$75
	L5-30R	I		\$75
	L6-15R Duplex	J		\$75
208, 220, or 240 volt	L6-20R	K		\$75
	L6-30R	L		\$75
400/040	L14-20R	М		\$75
120/240 volt	L14-30R	N		\$75
120 volt	15 Amp / 1 pole Circuit Breaker	V		\$60
All voltages except 120 volt	15 Amp / 2 pole Circuit Breaker	W		\$60
120 volt	20 Amp / 1 pole Circuit Breaker	Х		\$60
All voltages except 120 volt	20 Amp / 2 pole Circuit Breaker	Y		\$60
120 volt	30 Amp / 1 pole Circuit Breaker	Z		\$60
All voltages except 120 volt	30 Amp / 2 pole Circuit Breaker	2		\$60
Receptacle Output Connection Hardwire Output Connection		0 Ā 0	ĀŪ ĀŪ	
¹ Internal maintenance bypass sw	itch required for receptacle or circuit brea	ker output c	onnections	

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 ¹	I	\$300
DVR and Anchor Kit for raised or access floor ¹	J	\$300
Neutral to Ground bond removal and DVR (For shipboard use)	R	\$25

1. Anchor Kits cannot be used with Floor Saver Battery Option

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 thisguide.

External Battery Packs				
Runtime Full/Half	Battery Charger Required ¹	Order Number	List Price	
18m/48m	Standard Battery Charger ¹ 10 or 20 Amp Battery Charger Upgrade Optional	EBPS12F	\$9,802	
27m/1h13m	Standard Battery Charger ¹ 10 or 20 Amp Battery Charger Upgrade Optional	9fe	\$12,995	
49m/2h07m	Standard Battery Charger ¹ 10 or 20 Amp Battery Charger Upgrade Optional	10fe	\$19,783	
1h12m/3h04m	Standard Battery Charger ¹ 10 or 20 Amp Battery Charger Upgrade Optional	11fe	\$21,936	
1h38m/4h05m	10 Amp Battery Charger Upgrade ¹ 20 Amp Battery Charger Upgrade Optional	12fe	\$29,460	
2h12m/5h05m	10 Amp Battery Charger Upgrade ¹ 20 Amp Battery Charger Upgrade Optional	13fe	\$37,565	
3h08m/7h14m	20 Amp Battery Charger Upgrade ¹	14fe	\$43,617	
5h10m/11h57m	20 Amp Battery Charger Upgrade ^{1,2}	15fe	63,359	

¹Order battery charger as part of UPS. See page 12.5k-1.

² Eaton has announced the End of Life of this Ferrups option. Product will be available while supplies last.

External Battery Accessories			
Option Order Number List Pr			
External DC Disconnect Required for all non-Ferrups battery packs.	DCU-0001	\$1,015	

External Maintenance Bypass Switches ¹ (Recommended for hardwired units)			
UPS Input Voltage	Switch Type	Order Number	List Price
	BBM (Break Before Make)	BPE04BBM1A	\$1,153
208, 220, 240 volt	BBM with AS/400 (iSeries) Option	BPE04BBMAS1A	\$1,175
	MBB (Make Before Break)	BPE04MBB1A	\$1,277
240 volt			

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

Ferrups 18kVA 60Hz Tower General Specifications

Capacity: Input Voltage: Output Voltage:

18.0kVA/ 15.0kW 208. 240 V 120/208, 120/240, 240

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

36.5" x 19.0" x 32.0" 930mm x 485mm x 815mm N/A 625lb / 283kg

See Eaton® Ferrups® FE Series 60Hz Datasheet (LTP0368) for additional product specification.

Base Unit		Digits 1-2
Base Model, Frequency, Cabinet Style	CTO Order Code	Base Price
FE18kVA, 60 Hz Tower	FN	\$32,231

Input / Output Voltage			
Input Voltage	Output Voltage	CTO Order Code	Base Price
208	120/208	1	\$0
208	120/240	2	\$0
240	120/240	3	\$0
240	240 (International Models)	6	\$0

Battery and Battery Charger			Digit 4
Battery Configuration Battery Charger CTO Order Code		Option Price	
set up for external battery pack ¹	standard	4	\$0
set up for external battery pack ¹	10 amp internal upgrade ²	5	\$435
set up for external battery pack ¹	20 amp internal upgrade ³	7	\$775

¹Order desired external battery pack as a separate line. If UPS is to be used with other than a Ferrups battery pack, also order DC Disconnect DCU-0001. See page 18k-3. ² Required for external battery packs 19fe - 20fe

³Required for external battery packs 21fe - 22fe

Internal Maintenance Bypas	Digit 5	
Internal Maintenance Bypass Switch CTO Order Code		Option Price
No internal maintenance bypass switch option ^{1,2}	0	\$0
Internal maintenance bypass switch option – MBB ³	1	\$1,075
Internal maintenance bypass switch option - BBM	2	\$975

AS/400 (iSeries) contacts included with Options 1 and 2.

¹ Internal maintenance bypass switch required for receptacle or circuit breaker output connections.

²External maintenance bypass switch also available. Order desired maintenance bypass switch as a separate line item on your order. See page 18k-3.

³Cannot be used with 208 or 220 voltinput

	Input Connection ¹		Digit 6
Input Voltage Selected	Input Connection	CTO Order Code	Option Price
Any	Hardwired	А	\$0
¹ Line Cord input connection not available	ble for 18kVA models		

Output Connection

Digits 7-14

Output Connection Configuration

- Internal maintenance by pass switch required for receptacle or circuit breaker output connections.
- Up to eight 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 ¹	CTO Or	CTO Order Code O	
Output Voltage Required	Calpar connection	Туре	Qty	per Panel
Any	Hardwired	А	0	\$0
400	5-15R Duplex	В		\$50
120 volt	5-20R Duplex (UL)	С		\$50
	6-15R Duplex	D		\$75
208, 220, or 240 volt	6-20R Duplex	E		\$75
	L5-15R Duplex	G		\$75
120 volt	L5-20R	Н		\$75
	L5-30R	I		\$75
	L6-15R Duplex	J		\$75
208, 220, or 240 volt	L6-20R	K		\$75
	L6-30R	L		\$75
	L14-20R	М		\$75
120/240 volt	L14-30R	N		\$75
120 volt	15 Amp / 1 pole Circuit Breaker	V		\$60
All voltages except 120 volt	15 Amp / 2 pole Circuit Breaker	W		\$60
120 volt	20 Amp / 1 pole Circuit Breaker	Х		\$60
All voltages except 120 volt	20 Amp / 2 pole Circuit Breaker	Y		\$60
120 volt	30 Amp / 1 pole Circuit Breaker	Z		\$60
All voltages except 120 volt	30 Amp / 2 pole Circuit Breaker	2		\$60
Receptacle Output Connection Hardwire Output Connection (0Ā0	Ā0 Ā0	
¹ Internal maintenance bypass	switch required for receptacle or circ	uit breake	r output co	nnections

	Digit 15
CTO Order Code	Option Price
В	\$0
I	\$300
J	\$300
R	\$25
	_

1. Anchor Kits cannot be used with Floor Saver Battery Option

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 thisguide.

External Battery Packs			
Runtime Full/Half	Battery Charger Required ¹	Order Number	List Price
10m/26m	Standard Battery Charger ¹ 10 or 20 Amp Battery Charger Upgrade Optional	EBPS18F	\$9,802
14m/39m	Standard Battery Charger ¹ 10 or 20 Amp Battery Charger Upgrade Optional	16fe	\$12,229
27m/1h10m	Standard Battery Charger ¹ 10 or 20 Amp Battery Charger Upgrade Optional	17fe	\$18,772
37m/1h46m	Standard Battery Charger ¹ 10 or 20 Amp Battery Charger Upgrade Optional	18fe	\$20,192
48m/2h04m	10 Amp Battery Charger Upgrade ^{1,2} 20 Amp Battery Charger Upgrade Optional	19fe	\$28,302
1h13m/3h01m	10 Amp Battery Charger Upgrade ¹ 20 Amp Battery Charger Upgrade Optional	20fe	\$37,195
1h49m/4h17m	20 Amp Battery Charger Upgrade ¹	21fe	\$42,399
3h04m/7h05m	20 Amp Battery Charger Upgrade ¹	22fe	\$63,394

¹Order battery charger as part of UPS. See page 18k-1.

²Eaton has announced the End of Life of this Ferrups option. Product will be available while supplies last.

External Battery Accessories			
Option	Order Number	List Price	
External DC Disconnect Required for all non-Ferrups battery packs.	DCU-0001	\$1,015	

External Maintenance Bypass Switches ¹ (Recommended for hardwired units)			
UPS Input Voltage	Switch Type	Order Number	List Price
208, 220, 240 volt	BBM (Break Before Make)	BPE05BBM1A	\$1,421
240 volt	MBB (Make Before Break)	BPE05MBB1A	\$1,595
	MBB with AS/400 (iSeries) Option	BPE05MBBAS1A	\$1,595

¹Bypass 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	FC - FK (.850kVA - 7kVA)	TRN-0239	\$2,400
10kVA Transformer	FL ¹ (10kVA)	TRN-0240	\$2,549
15kVA Transformer	FL ² , FM (10kVA – 12kVA)	TRN-0245	\$3,544
25kVA Transformer	FN (18kVA)	TRN-0599	\$5,021
480/240V in - 120/240V out	-		
Transformer Description	For use with Ferrups models:	Order Number	List Price
10kVA Transformer	FL ¹ (10kVA)	TRN-1194	Note ³
15kVA Transformer	FL ² , FM (10kVA – 12kVA)	TRN-1192	Note ³

¹Use with 10kVA UPS models having a 5 Amp battery charger.

²Use with 10kVA UPS models having a 10 or 20 Amp battery charger.

³ Contact Customer Support for pricing and lead time.

Caster Kits		
For use with Ferrups models:	Order Number	List Price
FF, FG, FH (1.8kVA – 3.1kVA)	CAA-0006	\$212

Connectivity			
Option	Order Number	List Price	
IBM AS/400 (iSeries) Interface Kit – UPS w/o maintenance bypass switch	IPK-0001	\$135	
Serial RS-232 CheckUPS Cable DB25M to DB9F	INT-0035	\$707	
BestLink SNMP/WEB Adapter	116750225-001	\$400	

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 Lan Safe® software is fully supportive of the Ferrups product line. Ferrups customers can use Lan Safe 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 Lan Safe software is available for download on our website powerquality.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>powerguality.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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EUROPE/MIDDLE EAST/AFRICA

Denmark: 45.3686.7910 Finland: 358.94.52.661 France: 33.1.6012.7400 Germany: 49.7841.666.0 Italy: 39.02.66.04.05.40 Norway: 47.23.03.65.50 Sweden: 46.8.598.940.00 United Kingdom: 44.1753.608.700

ASIA PACIFIC

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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