FERRUPS CTO Configuration Guide



FERRUPS FE4.3kVA 60 HZ

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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: FI000DC4A0A0A0A. See page 4.3k-7 for a CTO worksheet.

External battery packs, bypass switches and other external options will need to be ordered as separate line items.

Base Unit							
Base Model, Frequency, Cabinet Style	CTO Order Code	Base Price					
FE4.3kVA, 60 Hz Tower	FI	\$4512					

Input / Output Voltage							
Input Voltage	Output Voltage	CTO Order Code	Base Price				
120	120	0	\$269				
208	120/208	1	\$0				
208	120/240	2	\$0				
240	120/240	3	\$0				
220	220	4	\$269				
240	240 (International Models)	6	\$0				

Battery and Battery Charger								
Battery Configuration Battery Charger CTO Order Code Option								
8 minute internal (20 m half load)	standard	0	\$432					
27 minute internal (66 m half load)	standard	1	\$776					
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					

Order desired external battery pack as a separate line. See page 4.3k-5.

² Required for external battery packs 4fe – 5fe

³ Required for external battery packs 6fe – 7fe

Internal Maintenance Bypass Switch								
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						
Internal maintenance bypass switch option – MBB with iSeries ^{2,3}	3	\$725						
Internal maintenance bypass switch option – BBM with iSeries ³	4	\$625						

¹ External maintenance bypass switch also available for hardwired systems.

³ iSeries option formerly referred to as AS/400 option.

	Input Connection		
Input Voltage Selected	CTO Order Code	Option Price	
Any	Hardwired	А	\$0
120 volt	5-50P	D	\$120
208, 220, 240 volt	6-50P ¹	F	\$120
	14-50P ²	G	\$155
	L6-30P ¹	L	\$100
	L14-30 ²		
	IEC309 32A ³	T	\$200

¹ Cannot be used with internal maintenance bypass switch.

Order desired maintenance bypass switch as a separate line item on your order. See page 4.3k-5.

² Cannot be used with 208 input voltage.

² UPS must have internal maintenance bypass switch.

³ UPS is TUV listed when used with 220 or 240 volt.

Output Connection

Output Connection Configuration is 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. Additional output connections can be achieved by ordering external power distribution units. See page 4.3k-6.

- Two or four output slots available without internal maintenance bypass switch option.
- Up to four output slots available when internal maintenance bypass switch option is selected.
- If multiple quantities of one type of receptacle is desired, 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 Or	der Code	Option Price
Output voltage Required	Output Connection	Туре	Qty	per Panel
Any	Hardwired ¹	Α	0	\$0
400	5-15R Duplex	В		\$50
120 volt	5-20R Duplex (UL)	С		\$50
200, 200, ar 240 valt	6-15R Duplex	D		\$75
208, 220, or 240 volt	6-20R Duplex	Е		\$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 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	Υ		\$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		 <u>0 A 0</u>	_ <u>A 0 A 0</u>	

¹ Hardwired output requires hardwired input

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

Internal Options								
Option	CTO Order Code	Option Price						
No other option	А	\$0						
DVR (recommended when loads contain PFC power supplies)	В	\$200						
Anchor Kit for structural slab floor	D	\$323						
Anchor Kit for raised or access floor	Е	\$323						
DVR and Anchor Kit for structural slab floor	I	\$523						
DVR and Anchor Kit for raised or access floor	J	\$523						
Neutral to Ground bond removal (For shipboard use)	Q	\$25						
Neutral to Ground bond removal and DVR (For shipboard use)	R	\$225						

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.

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	\$1,914					
1h11m/2h51m	Standard Battery Charger ¹ 10 or 20 Amp Battery Charger Upgrade Optional	2fe	\$2,421					
1h49m/4h5m	Standard Battery Charger ¹ 10 or 20 Amp Battery Charger Upgrade Optional	3fe	\$3,075					
2h6m/4h49m	10 Amp Battery Charger Upgrade ¹ 20 Amp Battery Charger Upgrade Optional	4fe	\$3,524					
3h4m/6h46m	10 Amn Battery Charger Ungrade ¹		\$4,504					
4h27m/9h39m	20 Amp Battery Charger Upgrade ¹	6fe	\$6,149					
7h12m/15h56m	20 Amp Battery Charger Upgrade ¹	7fe	\$8,471					

¹Order battery charger as part of UPS. See page 4.3k-1.

External Maintenance Bypass Switches (Recommended for hardwired units)								
UPS Input Voltage Switch Type Order Number List P								
	BBM (Break Before Make)	BPE02BBM1A	\$450					
208, 220 volt	BBM with AS/400 (iSeries) Option	BPE02BBMAS1A	\$450					
	BBM with Locking Handle	BPE02BBM1A/L	\$650					
	MBB (Make Before Break)	BPE02MBB1A	\$550					
120, 240 volt	MBB with AS/400 (iSeries) Option	BPE02MBBAS1A	\$550					
	MBB with Locking Handle	BPE02MBB1A/L	\$750					

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

Other External Options							
Option	Order Number	List Price					
Voltage Matching Transformer – 208V input, 120/240V output Required for applications using MBB bypass with source voltage of 208V.	TRN-0244	\$735					
IBM AS/400 (iSeries) Interface Kit – UPS without maintenance bypass switch	IPK-0001	\$95					
IBM AS/400 (iSeries) Interface Kit – UPS with maintenance bypass switch	IPK-0002	\$120					
EnviroCom TM I	ENV-0100	\$439					
EnviroCom II	ENV-0200	\$949					
BestLink SNMP/WEB Adapter	IPK-0318	\$349					
Hand-held Remote Control Panel with Cable	RCK-0007	\$250					
Signal Splitter Box	IPK-0022	\$199					

PDU (Power Distribution Unit)									
Voltage	Order Number	List Price							
120/240	6 ft. line cord with L14-30P	(4) 5-15R, (8) 6-15R	PDU-0007	\$600					
120/240	6 ft. line cord with L14-30P	(4) 5-15R, (3) L6-30R	PDU-0008	\$400					
120/240	6 ft. line cord with L14-30P	(12) 5-15R	PDU-0009	\$300					
208 or 240	6 ft. line cord with L6-30P	(3) L6-20R, (1) L6-30R	PDU-0010	\$600					
208 or 240	6 ft. line cord with L6-30P	(4) L6-30R	PDU-0011	\$400					
120	6 ft. line cord with L5-30P	(8) 5-15R	PDU-0012	\$300					

FE4.3kVA Quote Sheet

The UPS CTO Worksheet											
	UPS CTO Order Code						ode		List Price	Discount	Net Price
Base Unit: FE4.3kVA, 60 Hz Tower	FI										
Input / Output Voltage											
Battery and Battery Charger											
Internal Maintenance Bypass Switch									-	-	_
Input Connection											
Output Connection											
Internal Options											
Complete UPS CTO Number	FI										
		•	•	•		U	PS Subt	otal			
External Battery Pack											
Battery Pack Selected:											
Other External Battery Options Selected	d:										
External Maintenance Bypass	Swite	ch									
External Maintenance Bypass Switch S	electe	d:									
Other External Options											
Voltage Matching Transformer							TRN-02	244			
IBM AS/400 (iSeries) Interface Kit							IPK-00	01			
 UPS without maintenance bypass sw IBM AS/400 (iSeries) Interface Kit 	/itch							<u> </u>			
UPS with maintenance bypass switch							IPK-00	02			
EnviroCom TM I							ENV-01	100			
EnviroCom II							ENV-02	200			
BestLink SNMP/WEB Adapter							IPK-03	18			
Hand-held Remote Control Panel with 0	Cable						RCK-00	007			
Signal Splitter Box							IPK-00	22			
PDU (Power Distribution Unit)							PDU				
							Sub To	otal			
										Freight	
										Insurance	
										Tax/Duty	
									(Quote Total	
Special Instructions:											