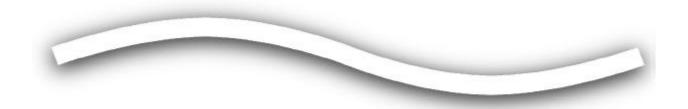
FERRUPS CTO Configuration Guide



FERRUPS FE12.5kVA 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: FM340A0A0A0A0A. See page 12.5k-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					
FE12.5kVA, 60 Hz Tower	FM	\$8205					

Input / Output Voltage							
Input Voltage Output Voltage CTO Order Code							
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									
Battery Configuration Battery Charger CTO Order Code Option Price									
8 minute internal (20 m half load)	standard	0	\$2820						
Floor Saver Cabinet									
set up for external battery pack ¹	4	\$0							
set up for external battery pack ¹ 10 amp internal upgrade ² 5									
set up for external battery pack ¹	20 amp internal upgrade ³	7	\$775						

¹ Order desired external battery pack as a separate line. See page 12.5k-5.

² Required for external battery packs 12fe – 13fe

³ Required for external battery packs 14fe – 15fe

Internal Maintenance Bypass Switch							
Internal Maintenance Bypass Switch CTO Order Code Option Pric							
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					
Internal maintenance bypass switch option – MBB with iSeries ^{3,4}	3	\$900					
Internal maintenance bypass switch option – BBM with iSeries ⁴	4	\$800					

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

⁴ iSeries option formerly referred to as AS/400 option

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

² External maintenance bypass switch also available. Order desired maintenance bypass switch as a separate line item on your order. See page 12.5k-5.

³ Cannot be used with 208 volt input

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 12.5k-6.

- Internal maintenance bypass switch required for receptacle or circuit breaker output connections
- Eight 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 ¹	CTO Ord	der Code	Option Price	
Output voltage Required	Output Connection	Туре	Qty	per Panel	
Any	Hardwired	А	0	\$0	
420	5-15R Duplex	В		\$50	
120 volt	5-20R Duplex (UL)	С		\$50	
200 220 ar 240 valt	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 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	ages except 120 volt 20 Amp / 2 pole Circuit Breaker ²			\$60	
120 volt	0 volt 30 Amp / 1 pole Circuit Breaker ²			\$60	
All voltages except 120 volt	30 Amp / 2 pole Circuit Breaker ²	2		\$60	
Receptacle Output Connection Hardwire Output Connection C		 <u>0 A0 .</u>	 <u>A </u>		

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

Internal Options							
Option	CTO Order Code	Option Price					
No other option	A	\$0					
DVR (recommended when loads contain PFC power supplies)	В	\$200					
Anchor Kit for structural slab floor	D	\$300					
Anchor Kit for raised or access floor	Е	\$300					
DVR and Anchor Kit for structural slab floor	Ī	\$500					
DVR and Anchor Kit for raised or access floor	J	\$500					
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				
18m/48m	Standard Battery Charger ¹ 10 or 20 Amp Battery Charger Upgrade Optional	EBPS12F	\$2,640				
27m/1h13m	Standard Battery Charger ¹ 10 or 20 Amp Battery Charger Upgrade Optional	9fe	\$3,650				
49m/2h07m	Standard Battery Charger ¹ 10 or 20 Amp Battery Charger Upgrade Optional	10fe	\$5,280				
1h12m/3h04m	Standard Battery Charger ¹ 10 or 20 Amp Battery Charger Upgrade Optional	11fe	\$6,800				
1h38m/4h05m	10 Amp Battery Charger Upgrade ¹ 20 Amp Battery Charger Upgrade Optional	12fe	\$7,920				
2h12m/5h05m	10 Amp Battery Charger Ungrade ¹		\$10,450				
3h08m/7h14m	20 Amp Battery Charger Upgrade ¹	14fe	\$13,600				
5h10m/11h57m	20 Amp Battery Charger Upgrade ¹	15fe	\$20,400				

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

External Maintenance Bypass Switches ¹ (Recommended for hardwired units)							
UPS Input Voltage	Switch Type	Order Number List					
	BBM (Break Before Make)	BPE04BBM1A	\$550				
208, 240 volt	BBM with AS/400 (iSeries) Option	BPE04BBMAS1A	\$550				
	BBM with Locking Handle	BPE04BBM1A/L	\$750				
	MBB (Make Before Break)	BPE04MBB1A	\$650				
240 volt	MBB with AS/400 (iSeries) Option	BPE04MBBAS1A	\$650				
	MBB with Locking Handle	BPE04MBB1A/L	\$850				

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-0245	\$1,670					
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				

FE12.5kVA Quote Sheet

The UPS CTO Worksheet										
	UPS CTO Order Code					ode	List Price	Discount	Net Price	
Base Unit: FE12.5kVA, 60 Hz Tower	FM									
Input / Output Voltage										
Battery and Battery Charger										
Internal Maintenance Bypass Switch								_	-	_
Input Connection										
Output Connection										
Internal Options										
Complete UPS CTO Number	FM									
					ι	JPS Subt	otal			
External Battery Pack										
Battery Pack Selected:										
Other External Battery Options Selected	d:									
External Maintenance Bypass	Switc	ch								
External Maintenance Bypass Switch S	electe	d:								
Other External Options										
Voltage Matching Transformer						TRN-02	245			
IBM AS/400 (iSeries) Interface Kit						IPK-00	01			
 UPS without maintenance bypass sw IBM AS/400 (iSeries) Interface Kit 	/itch									
UPS with maintenance bypass switch	I					IPK-00	02			
EnviroCom [™] 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:										