FERRUPS CTO Configuration Guide



FERRUPS FE18kVA 60 HZ





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: FN340AA0A0A0A0A. See page 18k-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					
FE18kVA, 60 Hz Tower	FN	\$10,630					

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								
Battery Configuration Battery Charger CTO Order Code Option Price								
4 minute internal (10m half load)	standard	0	\$2820					
Floor Saver Cabinet								
set up for external battery pack ¹	4	\$0						
set up for external battery pack ¹	5	\$435						
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 18k-5.

² Required for external battery packs 19fe – 20fe

³ Required for external battery packs 21fe – 22fe

Internal Maintenance Bypass Switch							
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					
Internal maintenance bypass switch option – MBB with iSeries ^{3,4}	3	\$1,075					
Internal maintenance bypass switch option – BBM with iSeries ⁴	4	\$975					

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 Pri							
Any	Hardwired	Α	\$0				
¹ Line Cord input connection not available for 18kVA models							

² External maintenance bypass switch also available. Order desired maintenance bypass switch as a separate line item on your order. See page 18k-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 18k-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
400 volt	5-15R Duplex	В		\$50
120 volt	5-20R Duplex (UL)	С		\$50
000 000 040	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	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	Υ		\$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 C		 <u>0 A0</u>	 <u>A O A O</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	I	\$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				
10m/26m	Standard Battery Charger ¹ 10 or 20 Amp Battery Charger Upgrade Optional	EBPS18F	\$2,640				
14m/39m	Standard Battery Charger ¹ 10 or 20 Amp Battery Charger Upgrade Optional	16fe					
27m/1h10m	Standard Battery Charger ¹ 10 or 20 Amp Battery Charger Upgrade Optional	17fe	\$5,280				
37m/1h46m	Standard Battery Charger ¹ 10 or 20 Amp Battery Charger Upgrade Optional	18fe	\$6,800				
48m/2h04m	10 Amp Battery Charger Upgrade ¹ 20 Amp Battery Charger Upgrade Optional	19fe	\$7,920				
1h13m/3h01m	10 Amn Battery Charger Ungrade ¹		\$10,450				
1h49m/4h17m	20 Amp Battery Charger Upgrade ¹	21fe \$13,6					
3h04m/7h05m	20 Amp Battery Charger Upgrade ¹	22fe	\$20,400				

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

External Maintenance Bypass Switches ¹ (Recommended for hardwired units)								
UPS Input Voltage	Order Number List Pr							
	BBM (Break Before Make)	BPE05BBM1A	\$725					
208, 240 volt	BBM with AS/400 (iSeries) Option	BPE05BBMAS1A	\$725					
	BBM with Locking Handle	BPE05BBM1A/L	\$925					
	MBB (Make Before Break)	BPE05MBB1A	\$825					
240 volt	MBB with AS/400 (iSeries) Option	BPE05MBBAS1A	\$825					
	MBB with Locking Handle	BPE05MBB1A/L	\$1,025					

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-0599	\$2,190					
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 Input Connection Output Connections Order Number								
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				

FE18kVA Quote Sheet

The UPS CTO Worksheet										
	UPS CTO Order Code					ode		List Price	Discount	Net Price
Base Unit: FE18kVA, 60 Hz Tower	FN									
Input / Output Voltage										
Battery and Battery Charger										
Internal Maintenance Bypass Switch								_	-	_
Input Connection										
Output Connection										
Internal Options										
Complete UPS CTO Number	FN									
		•		•	L	JPS Subto	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-05	599			
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						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:							_			