FERRUPS CTO Configuration Guide



FERRUPS FER1.8kVA 60 HZ Rackmount FERRUPS FES1.8kVA 60 HZ Rackmount





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: RD000CB2A0A0A0A. See page 1.8k-5 for a CTO worksheet.

External 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					
FER1.8kVA, 60 Hz Rackmount (Long Cabinet)	RG	\$2,567					
FES1.8kVA, 60 Hz Rackmount (Short Cabinet)	RD	\$2,717					

Input / Output Voltage								
Input Voltage	Output Voltage	CTO Order Code	Base Price					
120	120	0	\$0					
208	120/208	1	\$150					
208	120/240	2	\$150					
240	120/240	3	\$150					
240	240 (International Models)	6	\$150					

Battery and Battery Charger									
FER Rackmount (Long Cabinet)									
Battery Configuration	Cabinet / Battery Charger	CTO Order Code	Option Price						
31 minute internal (73 m half load)	long / standard	0	\$432						
Set up for internal (less batteries)	long / standard	3	\$216						
set up for external battery pack ¹	long / standard	\$ 0							
FES Rackmount (Short Cabinet)									
Battery Configuration	Cabinet / Battery Charger	CTO Order Code	Option Price						
9 minute internal (23 m half load)	short / standard	0	\$432						
Set up for internal (less batteries)	short / standard	3	\$216						
set up for external battery pack ¹	short / standard	4	\$ 0						
¹ Includes External Battery Connector									
Order desired external battery pack	as a separate line. See page	1.8k-4.							

Internal Maintenance Bypass Switch						
Internal Maintenance Bypass Switch CTO Order Code Option P						
No internal maintenance bypass switch option available ¹	0	\$0				

¹External maintenance bypass switch available for hardwired systems.

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

Input Connection								
Input Voltage Selected	Input Connection	CTO Order Code	Option Price					
Any	Hardwired ^{1, 2}	Α	\$0					
	5-20P	С	\$25					
120 volt	5-50P	D	\$90					
	L5-30P	J	\$60					
	6-15P	Е	\$60					
208 or 240 volt	L6-20P	K	\$60					
	L6-30P	L	\$60					

¹ Hardwired input requires hardwired output ² Limits output connections to two slots

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 of the receptacles.

- Three output slots available with line cord input connection.
- Two output slots available with hardwire input connection.
- 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 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	Outnut Connection	CTO Ord	der Code	Option Price
Output Voltage Required	Output Connection	Туре	Qty	per Panel
Any	Hardwired ¹	Α		\$0
400!	5-15R Duplex	В		\$50
120 volt	5-20R Duplex (UL)	С		\$50
000 - 040 - 16	6-15R Duplex	D		\$75
208 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 or 240 volt	L6-20R	K		\$75
	L6-30R	L		\$75
100/010	L14-20R	М		\$75
120/240 volt	L14-30R	N		\$75
Receptacle Output Connection CTO Order Code Hardwire Output Connection CTO Order Code			<u>AO AO</u>	

¹ Hardwired output requires hardwired input

Internal Options								
Option	CTO Order Code	Option Price						
No other option	Α	\$0						
DVR ¹ (recommended when loads contain PFC power supplies)	B ¹	\$150						
Neutral to Ground bond removal (For shipboard use)	Q	\$25						

¹ Cannot be used with short rackmount cabinet option or internal or less battery options.

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 ¹								
Runtime Full/Half Battery Charger Required Order Number List Price								
2h12m/4h53m	Standard Battery Charger	1re	\$1,830					
3h38m/8h22m	Standard Battery Charger	2re	\$3,092					

¹ UPS must be ordered set up for external battery pack. See page 1.8k-1.

External Battery Accessories						
Option Order Number List Price						
External Battery Connector Extension	BCS-0108	\$50				
Required for all external battery configurations except 1re and 2re.	DC3-0106	\$50				

External Maintenance Bypass Switches ¹ (Recommended for hardwired units)								
UPS Input Voltage	Order Number	List Price						
120 yelt	MBB (Make Before Break)	BPE01MBB1A	\$400					
120 volt	MBB, with AS/400 (iSeries) Option	BPE01MBBAS1A	\$400					
	BBM (Break Before Make)	BPE02BBM1A	\$450					
208 volt	BBM with AS/400 (iSeries) Option	BPE02BBMAS1A	\$450					
	BBM with Locking Handle	BPE02BBM1A/L	\$650					
	MBB (Make Before Break)	BPE02MBB1A	\$550					
240 volt	MBB with AS/400 (iSeries) Option	BPE02MBBAS1A	\$550					
	MBB with Locking Handle	BPE02MBB1A/L	\$750					

¹Bypass 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-1175	\$490					
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					

FER(S)1.8kVA Quote Sheet

The UPS CTO Worksheet											
	UPS CTO Order Code						le		List Price	Discount	Net Price
Base Unit: FER(S)1.8kVA 60Hz Rack	R_										
Input / Output Voltage											
Battery and Battery Charger											
Internal Maintenance Bypass Switch				0					_	_	-
Input Connection											
Output Connection											
Internal Options											
Complete UPS CTO Number	R_			0							
						UP	S Subto	otal			
External Battery Pack											
Battery Pack Selected:											
External Maintenance Bypass	Swite	ch									
External Maintenance Bypass Switch S	electe	d:									
Other External Options											
Voltage Matching Transformer							TRN-11	175			
IBM AS/400 (iSeries) Interface Kit – UPS without maintenance bypass sw	ritch						IPK-00	01			
IBM AS/400 (iSeries) Interface Kit – 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			
							Sub To	otal			
										Freight	
										Insurance	
Tax/Duty											
Quote Total											
Special Instructions:											