FERRUPS CTO Configuration Guide



FERRUPS FE3.1kVA 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: FH000JC3A0A0A0A. See page 3.1k-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	
FE3.1kVA, 60 Hz Tower	FH	\$3312	

Input / Output Voltage			
Input Voltage	Output Voltage	CTO Order Code	Base Price
120	120	0	\$0
208	120/208	1	\$161
208	120/240	2	\$161
240	120/240	3	\$161
240	240 (International Models)	6	\$161
220	127/220	7	\$161

Battery and Battery Charger						
Battery Configuration	Battery Configuration Battery Charger CTO Order Code Option Pri					
14 minute internal	standard	0	\$449			
37 minute internal	standard	1	\$793			
Set up for internal (less batteries)	standard	3	\$233			
set up for external battery pack1	standard	4	\$98			
set up for external battery pack ¹	15 amp internal upgrade ²	6	\$743			

¹ Includes External Battery Connector

² Required for external battery packs 12me – 15me

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

¹External maintenance bypass switch available for hardwired systems.

Order desired external battery pack as a separate line. See page 3.1k-5.

Order desired maintenance bypass switch as a separate line item on your order. See page 3.1k-5.

	Input Connection		
Input Voltage Selected	Input Connection	CTO Order Code	Option Price
Any	Hardwired ¹	Α	\$43
400!!	5-50P ³	D	\$90 ³
120 volt	L5-30P ²	J	\$ 0
208, 220, 240	6-15P ^{2,6}	Е	\$ 0
	L6-20P ²	K	\$60
	L6-30P ⁴	L	\$60 ⁴
	IEC320 – Jumper Cord ^{2,5}	0	\$15

¹ Hardwired input requires hardwired output

 ² Cannot be used with 15 Amp battery charger
 ³ 5-50P option price is \$0 if 15 Amp battery charger is selected. Cannot be used with 37 minute internal runtime.

⁴ L6-30P option price is \$0 if 15 Amp battery charger is selected.

⁵ Limits output connections to two panels

⁶ 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 3.1k-6.

- Three output slots available when a NEMA line cord is selected
- Two output slots available when an international line cord 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 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	Output Connection CTO Order Code Option F		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) ²	С		\$50 ²
208, 220, or 240 volt	6-15R Duplex	D		\$75
Choose up to three panels	6-20R Duplex	Е		\$75
	L5-15R Duplex	G		\$75
120 volt Choose up to three panels	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	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	N		\$75
208, 220, 240 only Choose up to two panels	IEC320 10A (Qty 2 per panel)	U		\$50
Receptacle Output Connection			<u>A</u> 0	
Hardwire Output Connection C	TO Order Code	<u>A 0 A 0</u>	<u>A 0 A 0</u>	

¹ Hardwired output requires hardwired input

² If three 5-20R (UL), CTO Order Code C3A0A0A0, are selected, option price is \$0.

Internal Options			
Option	CTO Order Code	Option Price	
No other option	A	\$0	
DVR (recommended when loads contain PFC power supplies)	В	\$150	
Caster Kit (if ordered with unit)	С	\$145	
Anchor Kit for structural slab floor	D	\$215	
Anchor Kit for raised or access floor	Е	\$215	
Caster Kit and Anchor Kit for structural slab floor	F	\$323	
Caster Kit and Anchor Kit for raised or access floor	G	\$323	
DVR and Caster Kit	Н	\$295	
DVR and Anchor Kit for structural slab floor	I	\$365	
DVR and Anchor Kit for raised or access floor	J	\$365	
DVR, Caster Kit and Anchor Kit for structural slab floor	K	\$473	
DVR, Caster Kit and Anchor Kit for raised or access floor	L	\$473	
Neutral to Ground bond removal (For Shipboard Use)	Q	\$25	
Neutral to Ground bond removal and DVR (For Shipboard Use)	R	\$175	

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
57m/2h27m	Standard Battery Charger ¹ 15 Amp Battery Charger Upgrade Optional	9me	\$1,430
1h41m/4h03m	Standard Battery Charger ¹ 15 Amp Battery Charger Upgrade Optional		\$2,421
2h29m/5h44m	Standard Battery Charger ¹ 15 Amp Battery Charger Upgrade Optional	11me	\$3,075
2h52m/6h50m	15 Amp Battery Charger Upgrade ¹	12me	\$3,524
4h07m/9h27m	15 Amp Battery Charger Upgrade ¹	13me	\$4,504
5h52m/13h30m	15 Amp Battery Charger Upgrade ¹	14me	\$6,149
9h41m/22h18m	15 Amp Battery Charger Upgrade ¹	15me	\$8,471

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

External Battery Accessories				
Option Order Number List Pric				
External Battery Connector Extension	BCS-0108	\$50		
Required for all external battery configurations except 9me – 15me.	DC3-0106	φ 50		

External Maintenance Bypass Switches (Recommended for hardwired units)				
UPS Input Voltage	Switch Type	Order Number	List Price	
120 ²	MBB (Make Before Break)	BPE01MBB1A	\$400	
120	MBB, with AS/400 (iSeries) Option	BPE01MBBAS1A	\$400	
208, 220	BBM (Break Before Make)	BPE02BBM1A	\$450	
	BBM with AS/400 (iSeries) Option	BPE02BBMAS1A	\$450	
	BBM with Locking Handle	BPE02BBM1A/L	\$650	
	MBB (Make Before Break)	BPE02MBB1A	\$550	
240	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.

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

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
Casters (if ordered as separate item)	CAA-0006	\$145
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	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	

FE3.1kVA Quote Sheet

The UPS CTO Worksheet										
	UPS CTO Order Code						List Price	Discount	Net Price	
Base Unit: FE3.1kVA, 60 Hz Tower	FH									
Input / Output Voltage										
Battery and Battery Charger										
Internal Maintenance Bypass Switch			С					_	_	_
Input Connection										
Output Connection										
Internal Options										
Complete UPS CTO Number	FH		С)						
					·	UPS Subt	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-0	244			
Casters (if ordered as separate item)						CAA-0	006			
IBM AS/400 (iSeries) Interface Kit						IPK-00	001			
 UPS without maintenance bypass sw IBM AS/400 (iSeries) Interface Kit 	ritch									
UPS with maintenance bypass switch						IPK-00	002			
EnviroCom [™] I						ENV-0	100			
EnviroCom II						ENV-0	200			
BestLink SNMP/WEB Adapter						IPK-03	318			
Hand-held Remote Control Panel with 0	Cable					RCK-0	007			
Signal Splitter Box						IPK-00)22			
PDU (Power Distribution Unit)						PDU				
						Sub T	otal			
									Tax/Duty	
								(Quote Total	
Special Instructions:										