

FERRUPS CTO Configuration Guide



FERRUPS FES850VA 60 HZ Rackmount

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POWERWARE®
UNINTERRUPTIBLE POWER SYSTEMS

FES850VA CTO Configuration Guide

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: RA000BB2A0A0A0A. See page 850-4 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
FES850VA, 60 Hz Rackmount	RA	\$1791

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			
Battery Configuration	Battery Charger	CTO Order Code	Option Price
11 minute internal (28 m half load)	standard	0	\$108
28 minute internal (71 m half load)	standard	1	\$216
Set up for internal (less batteries)	standard	3	\$54

Internal Maintenance Bypass Switch		
Internal Maintenance Bypass Switch	CTO Order Code	Option Price
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 850-3.

Input Connection			
Input Voltage Selected	Input Connection	CTO Order Code	Option Price
Any	Hardwired	A	\$ 0
120 volt	5-15P	B	\$15
208, 220, 240	6-15P	E	\$60

FES850VA CTO Configuration Guide

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.

- Two output slots available.
- 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	CTO Order Code		Option Price per Panel
		Type	Qty	
Any	Hardwired ¹	A	___	\$0
120 volt	5-15R Duplex	B	___	\$50
	5-20R Duplex (UL)	C	___	\$50
208 or 240 volt	6-15R Duplex	D	___	\$75
	6-20R Duplex	E	___	\$75
120 volt	L5-15R Duplex	G	___	\$75
	L5-20R	H	___	\$75
	L5-30R	I	___	\$75
208 or 240 volt	L6-15R Duplex	J	___	\$75
	L6-20R	K	___	\$75
	L6-30R	L	___	\$75
120/240 volt	L14-20R	M	___	\$75
	L14-30R	N	___	\$75
Receptacle Output Connection CTO Order Code		__	__	A 0 A 0
Hardwire Output Connection CTO Order Code		A 0	A 0	A 0 A 0
¹ Hardwired output requires hardwired input				

Internal Options

Option	CTO Order Code	Option Price
No other option	A	\$0
Neutral to Ground bond removal (For shipboard use)	Q	\$25

FES850VA CTO Configuration Guide

External Options

External 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 Maintenance Bypass Switches¹ (Recommended for hardwired units)			
UPS Input Voltage	Switch Type	Order Number	List Price
120 volt	MBB (Make Before Break)	BPE01MBB1A	\$400
	MBB with AS/400 (iSeries) Option	BPE01MBBAS1A	\$400
208 volt	BBM (Break Before Make)	BPE02BBM1A	\$450
	BBM with AS/400 (iSeries) Option	BPE02BBMAS1A	\$450
	BBM with Locking Handle	BPE02BBM1A/L	\$650
240 volt	MBB (Make Before Break)	BPE02MBB1A	\$550
	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-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™ 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

FES850VA Quote Sheet

The UPS CTO Worksheet									
	UPS CTO Order Code						List Price	Discount	Net Price
Base Unit: FES850VA, 60 Hz Rack	RA								
Input / Output Voltage									
Battery and Battery Charger									
Internal Maintenance Bypass Switch				0			–	–	–
Input Connection									
Output Connection									
Internal Options									
Complete UPS CTO Number	RA			0					
UPS Subtotal									
External Maintenance Bypass Switch									
External Maintenance Bypass Switch Selected:									
Other External Options									
Voltage Matching Transformer						TRN-1175			
IBM AS/400 (iSeries) Interface Kit – UPS without maintenance bypass switch						IPK-0001			
IBM AS/400 (iSeries) Interface Kit – UPS with maintenance bypass switch						IPK-0002			
EnviroCom™ I						ENV-0100			
EnviroCom II						ENV-0200			
BestLink SNMP/WEB Adapter						IPK-0318			
Hand-held Remote Control Panel with Cable						RCK-0007			
Signal Splitter Box						IPK-0022			
						Sub Total			
							Freight		
							Insurance		
							Tax/Duty		
							Quote Total		
Special Instructions:									