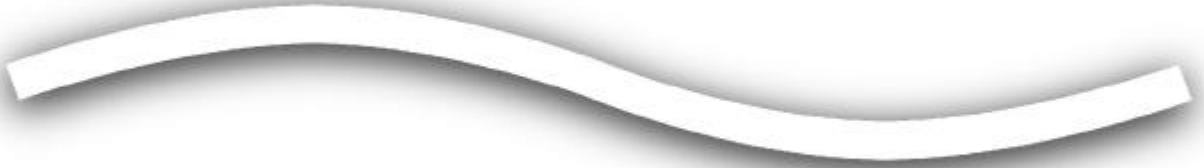


# **FERRUPS CTO Configuration Guide**



## **FERRUPS FE700VA 60 HZ**

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**POWERWARE®**  
UNINTERRUPTIBLE POWER SYSTEMS

# FE700VA 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: FB000BB2A0A0A0A. See page 700-4 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
FE700VA, 60 Hz Tower	FB	\$949

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
220	127/220	7	\$150

Battery and Battery Charger			
Battery Configuration	Battery Charger	CTO Order Code	Option Price
11 minute internal	standard	0	\$100
16 minute internal	standard	1	\$212
34 minute internal	standard	2	\$262
Set up for internal (less batteries)	standard	3	\$43
set up for external battery pack <sup>1</sup>	standard	4	\$36
set up for external battery pack <sup>1</sup>	15 amp internal upgrade <sup>2</sup>	6	\$536

<sup>1</sup> Includes External Battery Connector  
Order desired external battery pack as a separate line.  
See page 700-3.

<sup>2</sup> Required for external battery packs 24me and 25me

Internal Maintenance Bypass Switch		
Internal Maintenance Bypass Switch	CTO Order Code	Option Price
No internal maintenance bypass switch option available <sup>1</sup>	0	\$0

<sup>1</sup> External maintenance bypass switch available for hardwired systems. Order desired maintenance bypass switch as a separate line item on your order. See page 700-3.

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Input Connection			
Input Voltage Selected	Input Connection	CTO Order Code	Option Price
Any	Hardwired <sup>1</sup>	A	\$40
120 volt	5-15P <sup>2</sup>	B	\$ 0
	L5-15P <sup>2</sup>	H	\$15
208, 220, 240	6-15P <sup>2</sup>	E	\$ 0
	IEC320 – Jumper Cord <sup>3</sup>	O	\$15

<sup>1</sup> Hardwired input requires hardwired output

<sup>2</sup> NEMA line cord requires NEMA receptacles

<sup>3</sup> International line cord requires international receptacles

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.			
Output Voltage Required	Output Connection	CTO Order Code	Option Price
Any	Hardwired <sup>1</sup>	A0A0A0A0	\$0
120 volt only	(2) 5-15R Duplex	B2A0A0A0	\$0
	(1) 5-15R Duplex (1) L5-15R Duplex	B1G1A0A0	\$75
	(2) L5-15R Duplex	G2A0A0A0	\$75
	(2) 6-15R Duplex	D2A0A0A0	\$150
208, 220, 240 only	(4) IEC320	U1A0A0A0	\$100
	(1) 5-15R Duplex (1) 6-15R Duplex	B1D1A0A0	\$75
Mixed Voltages 120/208, 120/240, or 127/220	(1) L5-15R Duplex (1) 6-15R Duplex	D1G1A0A0	\$150

<sup>1</sup> Hardwired output requires hardwired input

Internal Options		
Option	CTO Order Code	Option Price
No other option	A	\$0
AVR (recommended when loads contain PFC power supplies)	B	\$100
Caster Kit (if ordered with unit)	C	\$100
Anchor Kit for structural slab floor	D	\$200
Anchor Kit for raised or access floor	E	\$200
AVR and Caster Kit	H	\$200
AVR and Anchor Kit for structural slab floor	I	\$300
AVR and Anchor Kit for raised or access floor	J	\$300
Neutral to Ground bond removal (For Shipboard Use)	Q	\$25
Neutral to Ground bond removal and AVR (For Shipboard Use)	R	\$125

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## 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 <sup>1</sup>	Order Number	List Price
2h10m/6h07m	Standard Battery Charger <sup>1</sup> 15 Amp Battery Charger Upgrade Optional	21me	\$638
5h40m/16h	15 Amp Battery Charger Upgrade <sup>1</sup>	24me	\$1,230
6h30m/18h23m	15 Amp Battery Charger Upgrade <sup>1</sup>	25me	\$1,430

<sup>1</sup>Order battery charger as part of UPS. See page 700-1.

### External Battery Accessories

Option	Order Number	List Price
External Battery Connector Extension Required for all external battery configurations except 21me – 25me.	BCS-0108	\$50

### External Maintenance Bypass Switches<sup>1</sup> (Recommended for hardwired units)

UPS Input Voltage	Switch Type	Order Number	List Price
120	MBB (Make Before Break)	BPE01MBB1A	\$400
	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
240	MBB (Make Before Break)	BPE02MBB1A	\$550
	MBB with AS/400 (iSeries) Option	BPE02MBBAS1A	\$550
	MBB with Locking Handle	BPE02MBB1A/L	\$750

<sup>1</sup> 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
Casters (if ordered as separate item)	CAA-0004	\$100
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

All Prices F.O.B. Necedah, Wisconsin U.S.A. in U.S. dollars.  
Product and pricing subject to change without notice.

# FE700VA Quote Sheet

The UPS CTO Worksheet										
	UPS CTO Order Code						List Price	Discount	Net Price	
Base Unit: FE700VA, 60 Hz Tower	FB									
Input / Output Voltage										
Battery and Battery Charger										
Internal Maintenance Bypass Switch				0			–	–	–	
Input Connection										
Output Connection										
Internal Options										
Complete UPS CTO Number	FB			0						
UPS Subtotal										
<b>External Battery Pack</b>										
Battery Pack Selected:										
<b>External Maintenance Bypass Switch</b>										
External Maintenance Bypass Switch Selected:										
<b>Other External Options</b>										
Voltage Matching Transformer						TRN-1175				
Casters (if ordered as separate item)						CAA-0004				
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:										