

FERRUPS CTO Configuration Guide



FERRUPS FE1.4kVA 60 HZ

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POWERWARE®
UNINTERRUPTIBLE POWER SYSTEMS

FE1.4kVA 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: FE000BB2A0A0A0A. See page 1.4k-6 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
FE1.4kVA, 60 Hz Tower	FE	\$1799

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	\$200
22 minute internal	standard	1	\$404
45 minute internal	standard	2	\$454
Set up for internal (less batteries)	standard	3	\$86
set up for external battery pack ¹	standard	4	\$22
set up for external battery pack ¹	15 amp internal upgrade ²	6	\$667

¹ Includes External Battery Connector
Order desired external battery pack as a separate line.
See page 1.4k-5.

² Required for external battery pack 10me

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

¹ External maintenance bypass switch available for hardwired systems. Order desired maintenance bypass switch as a separate line item on your order. See page 1.4k-5.

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Input Connection			
Input Voltage Selected	Input Connection	CTO Order Code	Option Price
Any	Hardwired ¹	A	\$40
120 volt	5-15P ²	B	\$ 0
	5-20P ³	C	\$25 ³
208, 220, 240	6-15P	E	\$ 0
	L6-20P	K	\$60
	L6-30P	L	\$60
	IEC320 – Jumper Cord ⁴	O	\$15

¹ Hardwired input requires hardwired output

² Cannot be used with 15 Amp battery charger

³ 5-20P option price is \$0 if 15 Amp battery charger is selected

⁴ Limits output connections to two panels

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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.

- 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	CTO Order Code		Option Price per Panel	
		Type	Qty		
Any	Hardwired ¹	A	0	\$0	
120 volt Choose up to three panels	5-15R Duplex	B	___	\$0	
	5-20R Duplex (UL)	C	___	\$50	
208, 220, or 240 volt Choose up to three panels	6-15R Duplex	D	___	\$75	
	6-20R Duplex	E	___	\$75	
120 volt Choose up to three panels	L5-15R Duplex	G	___	\$75	
	L5-20R	H	___	\$75	
	L5-30R	I	___	\$75	
208, 220, or 240 volt Choose up to three panels	L6-15R Duplex	J	___	\$75	
	L6-20R	K	___	\$75	
	L6-30R	L	___	\$75	
120/240 volt Choose up to three panels	L14-20R	M	___	\$75	
	L14-30R	N	___	\$75	
208, 220, 240 only Choose up to two panels	IEC320 10A (Qty 2 per panel)	U	___	\$50	
Receptacle Output Connection CTO Order Code		__	__	__	A 0
Hardwire Output Connection CTO Order Code		A 0	A 0	A 0	A 0

¹ Hardwired output requires hardwired input

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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	\$120
Anchor Kit for structural slab floor	D	\$200
Anchor Kit for raised or access floor	E	\$200
Caster Kit and Anchor Kit for structural slab floor	F	\$300
Caster Kit and Anchor Kit for raised or access floor	G	\$300
AVR and Caster Kit	H	\$220
AVR and Anchor Kit for structural slab floor	I	\$300
AVR and Anchor Kit for raised or access floor	J	\$300
AVR, Caster Kit and Anchor Kit for structural slab floor	K	\$400
AVR, Caster Kit and Anchor Kit for raised or access floor	L	\$400
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 ¹	Order Number	List Price
2h20m/6h35m	Standard Battery Charger ¹ 15 Amp Battery Charger Upgrade Optional	8me	\$1,230
3h10m/8h57m	Standard Battery Charger ¹ 15 Amp Battery Charger Upgrade Optional	9me	\$1,430
5h20m/15h5m	15 Amp Battery Charger Upgrade ¹	10me	\$2,421

¹Order battery charger as part of UPS. See page 1.4k-1.

External Battery Accessories		
Option	Order Number	List Price
External Battery Connector Extension Required for all external battery configurations except 8me – 10me.	BCS-0108	\$50

External Maintenance Bypass Switches ¹ (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

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
Casters (if ordered as separate item)	CAA-0005	\$120
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.

FE1.4kVA Quote Sheet

The UPS CTO Worksheet									
	UPS CTO Order Code						List Price	Discount	Net Price
Base Unit: FE1.4kVA, 60 Hz Tower	FE								
Input / Output Voltage									
Battery and Battery Charger									
Internal Maintenance Bypass Switch				0			—	—	—
Input Connection									
Output Connection									
Internal Options									
Complete UPS CTO Number	FE			0					
UPS Subtotal									
External Battery Pack									
Battery Pack Selected:									
External Maintenance Bypass Switch									
External Maintenance Bypass Switch Selected:									
Other External Options									
Voltage Matching Transformer						TRN-1175			
Casters (if ordered as separate item)						CAA-0005			
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:									