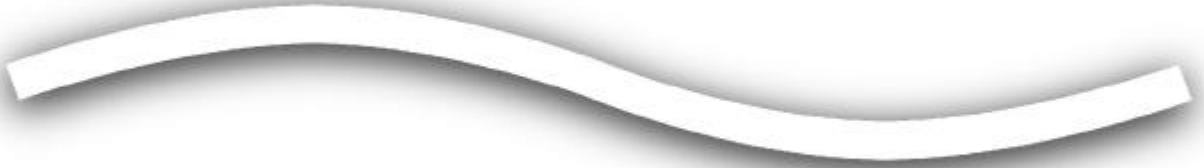


# **FERRUPS CTO Configuration Guide**



## **FERRUPS FER7VA 60 HZ Rackmount**

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**POWERWARE®**  
UNINTERRUPTIBLE POWER SYSTEMS

# FER7kVA 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: RK140FC2L1A0A0A. See page 7k-5 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
FER7kVA, 60 Hz Rackmount	RK	\$5,785

Input / Output Voltage			
Input Voltage	Output Voltage	CTO Order Code	Base Price
120	120	0	\$250
208	120/208	1	\$0
208	120/240	2	\$0
240	120/240	3	\$0
240	240 (International Models)	6	\$0

Battery and Battery Charger			
Battery Configuration	Battery Charger	CTO Order Code	Option Price
set up for external battery pack <sup>1</sup>	standard	4	\$0
set up for external battery pack <sup>1</sup>	10 amp internal upgrade <sup>2</sup>	5	\$270

<sup>1</sup> Order desired external battery pack as a separate line. See page 7k-3.

<sup>2</sup> Required for external battery packs 2rd – 3rd. See page 7k-3.

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 7k-3.

Input Connection			
Input Voltage Selected	Input Connection	CTO Order Code	Option Price
Any	Hardwired	A	\$0
208 or 240 volt	6-50P	F	\$120
	IEC309 32A <sup>1</sup>	T	\$200

# FER7kVA 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 for up to four different types of receptacles. Additional output connections can be achieved by ordering external power distribution units. See page 7k-4.

- Up to three 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 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 <sup>1</sup>	A	0	\$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		__	__	__
Hardwire Output Connection CTO Order Code		A0	A0	A0

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

## Internal Options

Option	CTO Order Code	Option Price
No other option	A	\$0
DVR (recommended when loads contain PFC power supplies)	B	\$200
iSeries option (Formerly AS/400 option)	M	\$0
iSeries option (Formerly AS/400 option) and DVR	N	\$200
Neutral to Ground bond removal (For shipboard use)	Q	\$25
Neutral to Ground bond removal and DVR (For shipboard use)	R	\$225

# FER7kVA CTO Configuration Guide

## 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
12m/33m	Standard Battery Charger <sup>1</sup> 10 Amp Battery Charger Upgrade Optional	EBPS4.3R	\$1,514
33m/1h31m	Standard Battery Charger <sup>1</sup> 10 Amp Battery Charger Upgrade Optional	1rd	\$3,092
58m/2h36m	10 Amp Battery Charger Upgrade <sup>1</sup>	2rd	\$4,658
1h28m/3h46m	10 Amp Battery Charger Upgrade <sup>1</sup>	3rd	\$5,570

<sup>1</sup>Order battery charger as part of UPS. See page 7k-1.

External Maintenance Bypass Switches <sup>1</sup> (Recommended for hardwired units)			
UPS Input Voltage	Switch Type	Order Number	List Price
120 volt	MBB (Make Before Break)	BPE04MBB1A	\$650
	MBB with AS/400 (iSeries) Option	BPE04MBBAS1A	\$650
	MBB with Locking Handle	BPE04MBB1A/L	\$850
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

<sup>1</sup> Bypass Switch must be mounted on the wall near the UPS.

# FER7kVA CTO Configuration Guide

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-0239	\$965
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

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

# FER7kVA Quote Sheet

The UPS CTO Worksheet									
	UPS CTO Order Code						List Price	Discount	Net Price
Base Unit: FER7kVA, 60 Hz Rack	RK								
Input / Output Voltage									
Battery and Battery Charger									
Internal Maintenance Bypass Switch							—	—	—
Input Connection									
Output Connection									
Internal Options									
Complete UPS CTO Number	RK								
UPS Subtotal									
<b>External Battery Pack</b>									
Battery Pack Selected:									
Other External Battery Options Selected:									
<b>External Maintenance Bypass Switch</b>									
External Maintenance Bypass Switch Selected:									
<b>Other External Options</b>									
Voltage Matching Transformer						TRN-0239			
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			
PDU (Power Distribution Unit)						PDU-____			
Sub Total									
							Freight		
							Insurance		
							Tax/Duty		
							Quote Total		
Special Instructions:									