

FERRUPS CTO Configuration Guide



FERRUPS QFER2.1kVA 50 HZ Rackmount
FERRUPS QFES2.1kVA 50 HZ Rackmount

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POWERWARE®
UNINTERRUPTIBLE POWER SYSTEMS

QFER(S)2.1kVA 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: RP000AA0A0A0A0A. See page 2.1k-5 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
QFER2.1kVA, 50 Hz Rackmount (Long Cabinet)	RS	\$3,267
QFES2.1kVA, 50 Hz Rackmount (Short Cabinet)	RP	\$3,417

Input / Output Voltage

Input Voltage	Output Voltage	CTO Order Code	Option Price
220	220	4	\$0
230	230	5	\$0
240	240	6	\$0

Battery and Battery Charger

FER Rackmount (Long Cabinet)			
Battery Configuration	Cabinet / Battery Charger	CTO Order Code	Option Price
24 minute internal (58 m half load)	long / standard	0	\$432
Set up for internal (less batteries)	long / standard	3	\$216
set up for external battery pack ¹	long / standard	4	\$ 0
FES Rackmount (Short Cabinet)			
Battery Configuration	Cabinet / Battery Charger	CTO Order Code	Option Price
7 minute internal (18 m half load)	short / standard	0	\$432
Set up for internal (less batteries)	short / standard	3	\$216
set up for external battery pack ¹	short / standard	4	\$ 0
¹ Includes External Battery Connector Order desired external battery pack as a separate line. See page 2.1k-4.			

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 2.1k-4.

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Input Connection			
Input Voltage Selected	Input Connection	CTO Order Code	Option Price
Any	Hardwired ¹	A	\$0
220, 230, or 240 volt	L6-20P ²	K	\$60
	L6-30P ²	L	\$60
	UK	N	\$15
	Australian	P	\$15
	Schuko	Q	\$15
	IEC309 16A	S	\$60
	Schuko 16A	V	\$60

¹ Limits output connections to two slots

² UPS not TUV/CE listed.

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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 of the receptacles.

- Three output slots available with line cord input connection.
- Two output slots available with hardwire input connection.
- If multiple quantities of one type of receptacle is desired, enter the type once with the total quantity (ex: D2 not D1D1).
- Always enter the receptacle types alphabetically (ex: D1E1 not E1D1).
- 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: D1E1A0A0).

Output Voltage Required	Output Connection	CTO Order Code		Option Price per Panel
		Type	Qty	
Any	Hardwired ¹	A	___	\$0
220, 230, or 240 volt	6-15R Duplex	D	___	\$75
	6-20R Duplex	E	___	\$75
	L6-15R Duplex	J	___	\$75
	L6-20R	K	___	\$75
	L6-30R	L	___	\$75
	United Kingdom	O	___	\$70
	Australian	P	___	\$70
	Schuko	R	___	\$70
	French Schuko	T	___	\$70
	IEC320 10 Amp	U	___	\$50
Receptacle Output Connection CTO Order Code		__	__	__
Hardwire Output Connection CTO Order Code		A0	A0	A0
¹ Hardwired output requires hardwired input				

Internal Options

Option	CTO Order Code	Option Price
No other option	A	\$0
DVR ¹ (recommended when loads contain PFC power supplies)	B ¹	\$150
Neutral to Ground bond removal (For shipboard use)	Q	\$25

¹ Cannot be used with short rackmount cabinet option or internal or less battery options.

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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 Packs¹

Runtime Full/Half	Battery Charger Required	Order Number	List Price
1h41m/3h54m	Standard Battery Charger	1re	\$1,830
2h50m/6h37m	Standard Battery Charger	2re	\$3,092

¹ UPS must be ordered set up for external battery pack. See page 2.1k-1.

External Battery Accessories

Option	Order Number	List Price
External Battery Connector Extension Required for all external battery configurations except 1re and 2re.	BCS-0108	\$50

External Maintenance Bypass Switches¹ (Recommended for hardwired units)

UPS Input Voltage	Switch Type	Order Number	List Price
220, 230, or 240 volt	MBB (Make Before Break)	BPE01MBB1A	\$400
	MBB, with AS/400 (iSeries) Option	BPE01MBBAS1A	\$400

¹ Bypass Switch must be mounted on the wall near the UPS.

Other External Options

Option	Order Number	List Price
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	BAA-0325	\$120
BestLink SNMP/WEB Adapter	IPK-0319	\$349
Hand-held Remote Control Panel with Cable	RCK-0007	\$250

QFER(S)2.1kVA Quote Sheet

The UPS CTO Worksheet									
	UPS CTO Order Code						List Price	Discount	Net Price
Base Unit: QFER(S)2.1kVA 50Hz Rack	R_								
Input / Output Voltage									
Battery and Battery Charger									
Internal Maintenance Bypass Switch				0			—	—	—
Input Connection									
Output Connection									
Internal Options									
Complete UPS CTO Number	R_			0					
UPS Subtotal									
External Battery Pack									
Battery Pack Selected:									
External Maintenance Bypass Switch									
External Maintenance Bypass Switch Selected:									
Other External Options									
IBM AS/400 (iSeries) Interface Kit – UPS without maintenance bypass switch						IPK-0001			
IBM AS/400 (iSeries) Interface Kit – UPS with maintenance bypass switch						BAA-0325			
BestLink SNMP/WEB Adapter						IPK-0319			
Hand-held Remote Control Panel with Cable						RCK-0007			
Sub Total									
							Freight		
							Insurance		
							Tax/Duty		
							Quote Total		
Special Instructions:									