

FERRUPS CTO Configuration Guide



FERRUPS QFER7VA 50 HZ Rackmount

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POWERWARE®
UNINTERRUPTIBLE POWER SYSTEMS

QFER7kVA 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: RV540TO1T1A0A0A. 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
QFER7kVA, 50 Hz Rackmount	RV	\$6,436

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

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

² 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 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 7k-3.

Input Connection			
Input Voltage Selected	Input Connection	CTO Order Code	Option Price
Any	Hardwired	A	\$0
220, 230, or 240 volt	6-50P ¹	F	\$120
	IEC309 32A	T	\$200

¹ 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 for up to four different types of receptacles.

- Up to two output slots available for international receptacles.
- Up to three output slots available for NEMA receptacles.
- If multiple quantities of one type of receptacle is desired, enter the type once with the total quantity (ex: O2 not O1O1).
- Always enter the receptacle types alphabetically (ex: O1P1 not P1O1).
- 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: O1P1A0A0).

Output Voltage Required	Output Connection	CTO Order Code		Option Price per Panel
		Type	Qty	
Any	Hardwired ¹	A	0	\$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
Receptacle Output Connection CTO Order Code		__ __	__ <u>A</u> <u>0</u>	
Hardwire Output Connection CTO Order Code		<u>A</u> <u>0</u>	<u>A</u> <u>0</u> <u>A</u> <u>0</u>	

¹ 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

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

¹Order battery charger as part of UPS. See page 7k-1.

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)	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
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

QFER7kVA Quote Sheet

The UPS CTO Worksheet										
	UPS CTO Order Code						List Price	Discount	Net Price	
Base Unit: QFER7kVA, 50 Hz Rack	RV									
Input / Output Voltage										
Battery and Battery Charger										
Internal Maintenance Bypass Switch							—	—	—	
Input Connection										
Output Connection										
Internal Options										
Complete UPS CTO Number	RV									
UPS Subtotal										
External Battery Pack										
Battery Pack Selected:										
Other External Battery Options 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:										