## FERRUPS CTO Configuration Guide

FERRUPS QFER1.8kVA 50 HZ Rackmount FERRUPS QFES1.8kVA 50 HZ Rackmount

## QFER(S)1.8kVA 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: ROOOOAAOAOAOAOA. See page $1.8 k-5$ 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 |
| QFER1.8kVA, 50 Hz Rackmount (Long Cabinet) | RR | $\$ 2,967$ |
| QFES1.8kVA, 50 Hz Rackmount (Short Cabinet) | RO | $\$ 3,117$ |


| 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) | Cabinet / Battery Charger | CTO Order Code | Option Price |
| :--- | :---: | :---: | :---: |
| Battery Configuration | long / standard | 0 | $\$ 432$ |
| 31 minute internal ( 73 m half load) | long / standard | 3 | $\$ 216$ |
| Set up for internal (less batteries) | long / standard | 4 | $\$ 0$ |
| set up for external battery pack ${ }^{1}$ |  |  |  |

FES Rackmount (Short Cabinet)

| Battery Configuration | Cabinet / Battery Charger | CTO Order Code | Option Price |
| :--- | :---: | :---: | ---: |
| 9 minute internal ( 23 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 1.8k-4.

## 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 1.8k-4.

QFER(S)1.8kVA CTO Configuration Guide

| 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 | $\$ 60$ |

[^0]
## QFER(S)1.8kVA 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 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: AOAOAOAO).
- If fewer than four types of receptacle are selected, complete the remaining receptacle digits with A 0 (ex: D1E1A0A0).

| Output Voltage Required | Output Connection | СTO 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 | 0 | - | \$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 |  |  | $\begin{array}{r} 1 \\ -\quad \underline{O} \underline{0} \\ \underline{0} \quad \underline{O} \underline{0} \\ \hline \end{array}$ |  |

${ }^{1}$ 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) | $\mathrm{B}^{1}$ | $\$ 150$ |
| 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.

## QFER(S)1.8kVA 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 | Order Number | List Price |
| $2 \mathrm{~h} 12 \mathrm{~m} / 4 \mathrm{~h} 53 \mathrm{~m}$ | Standard Battery Charger | 1 re | $\$ 1,830$ |
| $3 \mathrm{~h} 38 \mathrm{~m} / 8 \mathrm{~h} 22 \mathrm{~m}$ | Standard Battery Charger | 2 re | $\$ 3,092$ |

${ }^{1}$ UPS must be ordered set up for external battery pack. See page 1.8k-1.

## External Battery Accessories

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


| External Maintenance Bypass Switches ${ }^{\text {² }}$ (Recommended for hardwired units) |  |  |  |
| :--- | :--- | :---: | ---: |
| UPS Input Voltage | Switch Type | Order Number | List Price |
|  | 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 <br> bypass switch | IPK-0001 | $\$ 95$ |
| IBM AS/400 (iSeries) Interface Kit - UPS with maintenance bypass <br> switch | BAA-0325 | $\$ 120$ |
| BestLink SNMP/WEB Adapter | IPK-0319 | $\$ 349$ |
| Hand-held Remote Control Panel with Cable | RCK-0007 | $\$ 250$ |

QFER(S)1.8kVA Quote Sheet
The UPS CTO Worksheet


Special Instructions:


[^0]:    ${ }^{1}$ Limits output connections to two slots
    ${ }^{2}$ UPS not TUV/CE listed.

