

FLEXware™ 250

FW-IOB-S-120VAC Input/Output/Bypass Assembly Installation Instructions

Purpose

This document provides information on how to install the Input/Output/Bypass Assembly needed for a 120 Vac configuration using a FLEXware 250 enclosure.

Scope

This document covers how to install the input, output, and bypass breakers and mechanical interlock onto the FLEXware 250 enclosure. Specific wiring requirements are site-specific and will vary by installation.

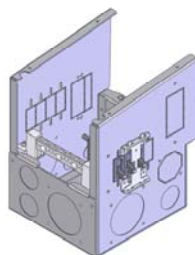
These instructions are for use by qualified personnel who meet all local and governmental code requirements for licensing and training for the installation of electrical power systems with AC and DC voltage up to 600 volts.

Requirements

The OutBack FW-IOB-S-120VAC is intended as a component for OutBack Power Systems AC Industrial Control Panels listed to UL508A or UL1741 standards.

This assembly is intended for indoor use only. Refer to the FLEXware 250 Installation Manual for complete installation instructions.

Components



FLEXware250 Enclosure

Figure 1 FW-IOB-S-120VAC Kit and Assembled Bypass

FW-IOB-S-120VAC Installation Instructions

Table 1 Parts List

| Item | Quantity |
|---|----------|
| AC Circuit Breakers (60A/120 Vac) Single-pole | 3 |
| Hardware Kit: | |
| ➤ 6-32 x 3/8" Machine Screws | 5 |
| ➤ #6 AWG Ring Terminal, 1/4" Stud Size | 2 |
| ➤ Mechanical Interlock Plate | 1 |
| ➤ Interlock Plate Mounting L-Bracket | 2 |
| Conductors | |
| ➤ #6 AWG Neutral (White), 14" | 1 |
| ➤ #6 AWG Ground (Green), 14" | 1 |
| ➤ #6 AWG Hot (Black), 14" | 2 |
| ➤ #6 AWG Hot (Black), 4" | 2 |
| Installation Instructions | 1 |

Installing the Breakers and Mechanical Interlock

1. Remove the appropriate AC breaker knockouts from the AC side of the FLEXware 250 enclosure.
 2. Insert the breakers (face out) into the openings from the inside of the FLEXware enclosure.
 3. Place the lowermost of the two Interlock L-Brackets over the breaker faces on the outside of the FLEXware 250 enclosure. Secure into place with the hardware provided. (See the circled Step 3 in Figure 2, below.)
 Note: Remove the 6-32 x 1/4" machine screws which were pre-inserted in the breakers. Instead, use the provided 3/8" screws when installing the L-brackets.
- CAUTION:** DO NOT use the 3/8" long screws on breaker(s) without the L-bracket as this will result in damage to the breaker.
4. Fit the Interlock Slide Plate into place over the breakers and into the two slots on the L-Bracket. (See the circled Step 4 in Figure 2, below.)
 5. Insert the upper L-Bracket behind the Slide Plate and insert the tabs on the plate into the slots on the bracket. (See the circled Step 5 in Figure 2, below.)

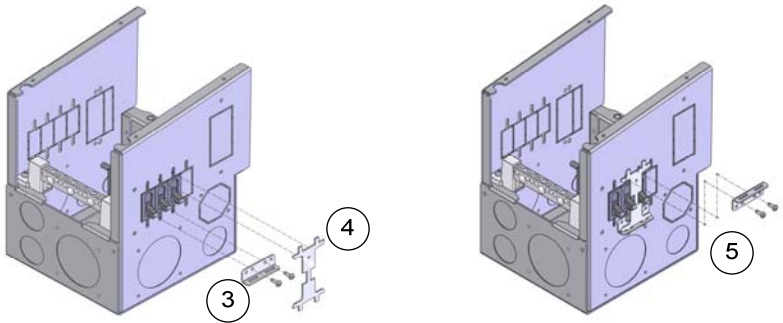


Figure 2 Installing the Breakers and Mechanical Interlock

Basic AC Wiring

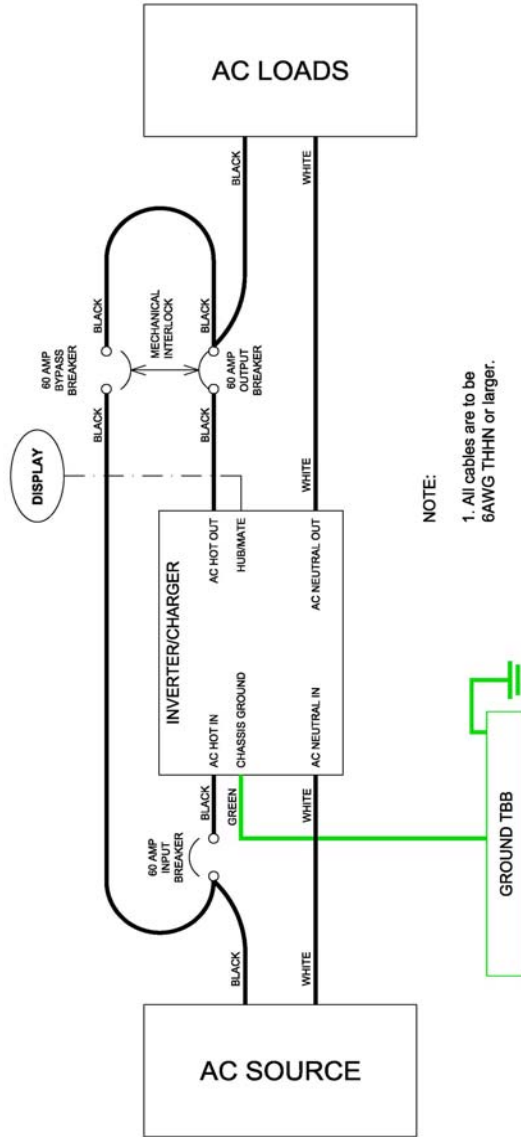


Figure 3 Basic AC Wiring

About OutBack Power Systems

OutBack Power Systems is a leader in advanced energy conversion technology. Our products include true sine wave inverter/chargers, maximum power point tracking charge controllers, system communication components, as well as breaker panels, breakers, accessories, and assembled systems.

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Date and Revision

June 2009, Revision A

Part Number

900-0043-01-00 REV A



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