



Power Fallback Switch

**CUSTOMER
SUPPORT
INFORMATION**

Order **toll-free** in the U.S.: Call **877-877-BBOX** (outside U.S. call **724-746-5500**)
FREE technical support 24 hours a day, 7 days a week: Call **724-746-5500** or fax **724-746-0746**
Mailing address: **Black Box Corporation**, 1000 Park Drive, Lawrence, PA 15055-1018
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**FEDERAL COMMUNICATIONS COMMISSION
AND
INDUSTRY CANADA
RADIO FREQUENCY INTERFERENCE STATEMENTS**

This equipment generates, uses, and can radiate radio-frequency energy, and if not installed and used properly, that is, in strict accordance with the manufacturer's instructions, may cause interference to radio communication. It has been tested and found to comply with the limits for a Class A computing device in accordance with the specifications in Subpart B of Part 15 of FCC rules, which are designed to provide reasonable protection against such interference when the equipment is operated in a commercial environment. Operation of this equipment in a residential area is likely to cause interference, in which case the user at his own expense will be required to take whatever measures may be necessary to correct the interference.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This digital apparatus does not exceed the Class A limits for radio noise emission from digital apparatus set out in the Radio Interference Regulation of Industry Canada.

Le présent appareil numérique n'émet pas de bruits radioélectriques dépassant les limites applicables aux appareils numériques de la classe A prescrites dans le Règlement sur le brouillage radioélectrique publié par Industrie Canada.

This product meets the applicable Industry Canada technical specifications.

EUROPEAN UNION DECLARATION OF CONFORMITY

This equipment complies with the requirements of the European EMC Directive 89/336/EEC.



NORMAS OFICIALES MEXICANAS (NOM) ELECTRICAL SAFETY STATEMENT INSTRUCCIONES DE SEGURIDAD

1. Todas las instrucciones de seguridad y operación deberán ser leídas antes de que el aparato eléctrico sea operado.
2. Las instrucciones de seguridad y operación deberán ser guardadas para referencia futura.
3. Todas las advertencias en el aparato eléctrico y en sus instrucciones de operación deben ser respetadas.
4. Todas las instrucciones de operación y uso deben ser seguidas.
5. El aparato eléctrico no deberá ser usado cerca del agua—por ejemplo, cerca de la tina de baño, lavabo, sótano mojado o cerca de una alberca, etc..
6. El aparato eléctrico debe ser usado únicamente con carritos o pedestales que sean recomendados por el fabricante.
7. El aparato eléctrico debe ser montado a la pared o al techo sólo como sea recomendado por el fabricante.
8. Servicio—El usuario no debe intentar dar servicio al equipo eléctrico más allá a lo descrito en las instrucciones de operación. Todo otro servicio deberá ser referido a personal de servicio calificado.
9. El aparato eléctrico debe ser situado de tal manera que su posición no interfiera su uso. La colocación del aparato eléctrico sobre una cama, sofá, alfombra o superficie similar puede bloquea la ventilación, no se debe colocar en libreros o gabinetes que impidan el flujo de aire por los orificios de ventilación.
10. El equipo eléctrico deber ser situado fuera del alcance de fuentes de calor como radiadores, registros de calor, estufas u otros aparatos (incluyendo amplificadores) que producen calor.
11. El aparato eléctrico deberá ser conectado a una fuente de poder sólo del tipo descrito en el instructivo de operación, o como se indique en el aparato.
12. Precaución debe ser tomada de tal manera que la tierra física y la polarización del equipo no sea eliminada.
13. Los cables de la fuente de poder deben ser guiados de tal manera que no sean pisados ni pellizcados por objetos colocados sobre o contra ellos, poniendo particular atención a los contactos y receptáculos donde salen del aparato.
14. El equipo eléctrico debe ser limpiado únicamente de acuerdo a las recomendaciones del fabricante.
15. En caso de existir, una antena externa deberá ser localizada lejos de las líneas de energía.
16. El cable de corriente deberá ser desconectado del cuando el equipo no sea usado por un largo periodo de tiempo.
17. Cuidado debe ser tomado de tal manera que objetos líquidos no sean derramados sobre la cubierta u orificios de ventilación.
18. Servicio por personal calificado deberá ser provisto cuando:
 - A: El cable de poder o el contacto ha sido dañado; u
 - B: Objetos han caído o líquido ha sido derramado dentro del aparato; o
 - C: El aparato ha sido expuesto a la lluvia; o
 - D: El aparato parece no operar normalmente o muestra un cambio en su desempeño; o
 - E: El aparato ha sido tirado o su cubierta ha sido dañada.

WARNINGS AND CAUTIONS

Secure Racking

If secure racked units are installed in a closed or multi-unit rack assembly, they may require further evaluation by certification agencies. Consider the following items:

1. The ambient temperature within the rack may be greater than the room ambient temperature. Installation should be such that the amount of airflow required for safe operation is not compromised. The maximum temperature for the equipment in this environment is 122°F (50°C).
2. Install the unit so that it doesn't become unstable from uneven loading.
3. Side vents are used to dissipate heat generated within the unit. When mounting the unit in an equipment rack, make certain to allow adequate clearance for venting.

Input Supply

Check nameplate ratings to ensure that there is no overloading of supply circuits that could have an effect on overcurrent protection and supply wiring.

Grounding

Maintain reliable grounding of this equipment. Give particular attention to supply connections when connecting to power strips, rather than direct connections to the branch circuit.

Shock Hazard

Do not attempt to repair or service this device yourself. Internal components must be serviced by authorized personnel only.

Disconnect Power

If any of the following events occurs, immediately disconnect the unit from the outlet and contact Black Box at 724-746-5500.

1. The power cord is frayed or damaged.
2. Liquid has been spilled into the device or the device has been exposed to rain or water.

Disconnect the Power Supply Cable(s)

Before attempting to service or remove this unit, make certain that the power cable(s) are disconnected.

Specifications

Physical/Environmental:

Width: 17" (48.3 cm) (Including Rack Brackets)

Depth: 8.7" (22.1 cm)

Height: 1.75" (4.5 cm) One Rack U

Operating Temperature: 32°F to 122°F (0°C to 50°C)

Humidity: 10 - 90% RH

Power Input Feeds:

PFBS120: Two (2) IEC-60320-C14 Inlets.

PFBS240: Two (2) IEC-60320-C20 Inlets.

Power Outlets:

PFBS120: Eight (8) each, NEMA 5-15R Outlets.

PFBS240: Eight (8) each, IEC-60320-C13 Outlets.

One (1) each, IEC-60320-C19 Outlets

Power Requirements and Maximum Load:

| Model No. | Input Feeds (x2) | Input Voltage | Max. Load per Outlet | Outlets | Max. Load per Unit |
|-----------|------------------|----------------|----------------------|--|--------------------|
| PFBS120 | 15 Amps | 100 to 120 VAC | 12 Amps | 8 ea. NEMA 5-15R | 12 Amps* |
| PFBS240 | 20 Amps | 200 to 240 VAC | 10/16 Amps | 8 ea. IEC-60320-C13 1 ea. IEC-60320-C19 | 16 Amps* |

* In accordance with UL requirements for branch circuits, this value has been de-rated to 80%.

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Quick Start Guide

This Quick Start Guide describes the installation procedure for the Power Fallback Switch. The Power Fallback Switch automatically switches power from a primary input to a secondary input when power to the primary input is lost or interrupted.

Hardware Installation

Apply Power to the Power Fallback Switch

Refer to the warnings and cautions at the beginning of this guide and the power rating nameplate on the Power Fallback Switch back panel, and then connect the unit to two appropriate power sources. For units with detachable power input cables, connect the power input cables to the power inlets, install the cable keepers, and then connect the primary power input cable to your primary power supply and the secondary power input cable to your secondary power supply. Refer to the table in the "Specifications" section of this Quick Start Guide for information concerning power requirements and maximum loads.

Notes:

- **After connecting your power cables to the Power Fallback Switch, make certain to secure the cables in order to prevent accidental disconnection.**
- **PFBS120 units are designed for switching power input lines that are typically 120 VAC. If a power input lower than 85 VAC is connected to a PFBS120, then power switching features will not function correctly.**
- **PFBS240 units are designed for switching power input lines that are typically 240 VAC. If a power input lower than 200 VAC is connected to a PFBS240 units, then power switching features will not function correctly.**

Operation

When properly installed, the Power Fallback Switch will automatically switch power from the primary input to the secondary input when the power to the primary input is interrupted. After switching from primary to secondary, the Power Fallback Switch will also switch power back to the primary input when power to the primary input is restored. Note that the "Input Power" LEDs on the Power Fallback Switch front panel will light to indicate which power input(s) has power.



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