LifeSafety Power

Description

The B100 secondary voltage module provides a means to easily and economically add an additional voltage to any FlexPower system. Primary power for the B100 is derived from an FPO power supply and the B100 steps the FPO voltage down to the user defined range (typically 12VDC*).

The B100 terminal block output is Class 2 power limited and jumper selectable for either a fixed 12VDC or an adjustable range between 5-18VDC at 4 amps maximum current. Multiple B100's can be added to a system for virtually unlimited voltage combinations.

See B100 user manual for complete capability

Specifications

Parameter	Rating
Input Voltage (from FPO power supply)	12 or 24 VDC
Output Voltage (jumper select)	12VDC or 5-18VDC (user adjustable)
Output Current (Class 2 Power Limited)	4 Amps
Efficiency	91%
Output Ripple (12V@4A)	82 mVp-p
Line Regulation (12V@4A)	<0.1±%
Load Regulation (12V@4A)	0.56 ±%

Input voltage must be a minimum of 3V higher than output voltage

Ordering

Model No.	Mechanical Information
B100	Size: 4" x 2.5" x 1.5" Weight: .50 lb.

Provided with cables and mounting hardware

Agency Listings

Product listed for use in LifeSafety Power equipment

USA	CANADA
UL 294 UL 1481	ULC S318
UL 603 UL 2044	ULC S319
UL 864 UL 2572	ULC S527
UL 1076	CSA C22.2 #107.1
FCC Part 15, Subpart B	CSA 22.2 #60950
CSFM Approved	

Lifetime Warranty

Features and Functions

Programmable output voltage
- Jumper select output voltage
  - 12VDC fixed
  - 5 to 18VDC user adjustable
- 4 Amps current at any selected voltage

On-board protection
- Over load protection
- Short circuit protection
- Over temperature protection

Fault reporting (to host power supply)
- Abnormal operation
- Voltage loss
- Over current

Visual Indicators
- DC in / DC out
- Fault

Benefits
- Adds an economical secondary 12V output to any 24VDC system
- Provides the odd voltage required to power modems, routers and other IT or similar devices (ie., 5V, 9V, 15V etc)
- Snap-in style mounting standoffs with fast-on connect cables for easy field installation

Ten year warranty
- High efficiency circuit of greater than 90% provides less heat generation leading to a longer service life and lower MTBF

FLEXPOWER Standard Features

FlexConnect® Power supply and accessory board interconnection system uses common mounting footprints, predrilled mounting holes, snap-in standoffs, pluggable wires, and a dual buss distribution architecture to simplify installation and service.

Reliability+® FPO power supplies are fully fault protected and feature fiberglass printed circuit boards to protect the electronics from water and other corrosive elements found in industrial settings. High efficiency design promotes low heat generation leading to longer service life.

GreenSmart® FlexPower systems are RoHs compliant, lead-free, and meet the latest state, federal and European requirements for energy efficiency.

Expansion This module is typically part of an existing system or purchased to expand an existing system.

Fault Detection A blown fuse or loss of output voltage will be detected and reported to the host FPO power supply.

Flexibility This module may also be used to add multiple output voltages to an existing system that currently does not feature these functions. See the instruction manual or application notes for more information.

This module may be added to any existing FlexPower system without restrictive agency listing issues.
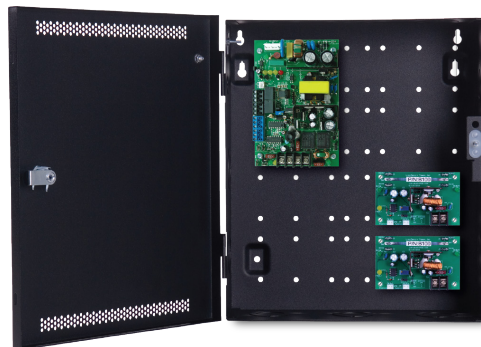
B100 multi-output example

The desired system is required to provide 5V@.5A for an IT modem, 9V@1A for an IT router, and 24V@2A for miscellaneous system functions.

- ◆ 5V@.5A = 2.5W
- ◆ 9V@1A = 9W
- ◆ 24V@2A = 48W
- ◆ Total Watts = 59.5W

A system made up of one B100 set to 5V, one B100 set to 9V, and one FPO75 set for 24V will accomplish the system requirement. All equipment will fit within an E1 cabinet and only requires a single 24V battery set for backup of all voltages.

The part number would be *FPO75-2B100E1*

LifeSafetyPower.com

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Specifications subject to change without notice.