

**OVERVIEW**

Traditionally, connecting a power supply to distribution modules requires individual wires to be connected between the boards using screw terminals. These distribution modules are also typically limited to a single voltage input.

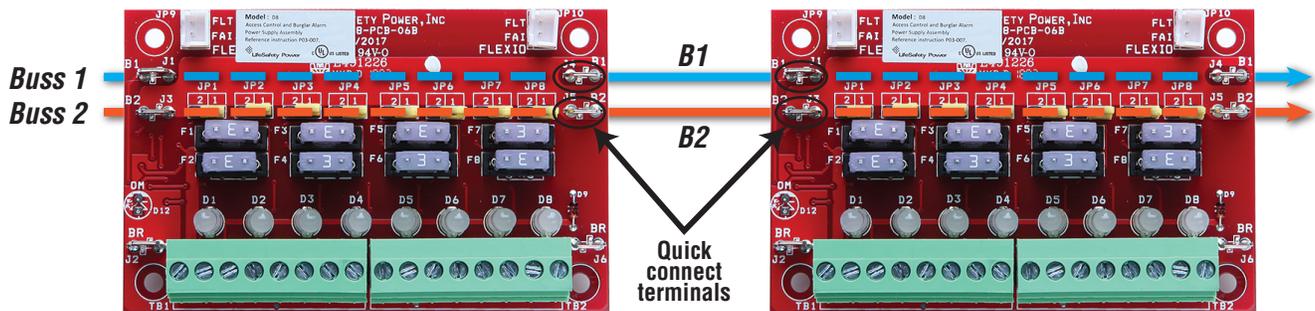
All LSP FlexPower power supply systems utilize the innovative *FlexConnect Buss Architecture* to distribute multiple voltages and control signals to all accessory boards in a FlexPower system.

The FlexConnect system allows connection of any LSP accessory board via quick disconnect terminals and plug-in wire harnesses, allowing virtually unlimited combinations of LSP accessory boards to be used together and expanded on the job site. (Fig. 1)

**SYSTEM BENEFITS**

- Ease of connection of accessory boards in the field via plug-in connections
- Versatility of accessory board combinations
- BOTH voltages available on all distribution or control boards, selectable by individual output, in dual voltage systems
- All FAI-capable accessory boards in a system will activate off of a single FAI input on the FPO power supply

*Figure 1*

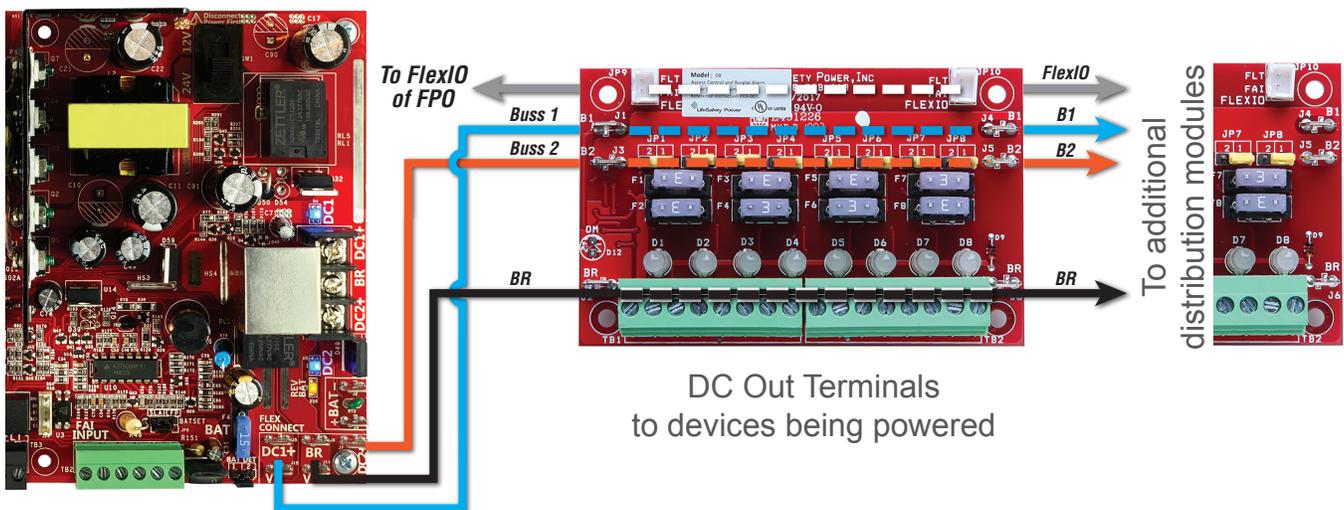


**BASIC BUSS ARCHITECTURE**

All FlexPower modules pass two power busses and one control buss through them.

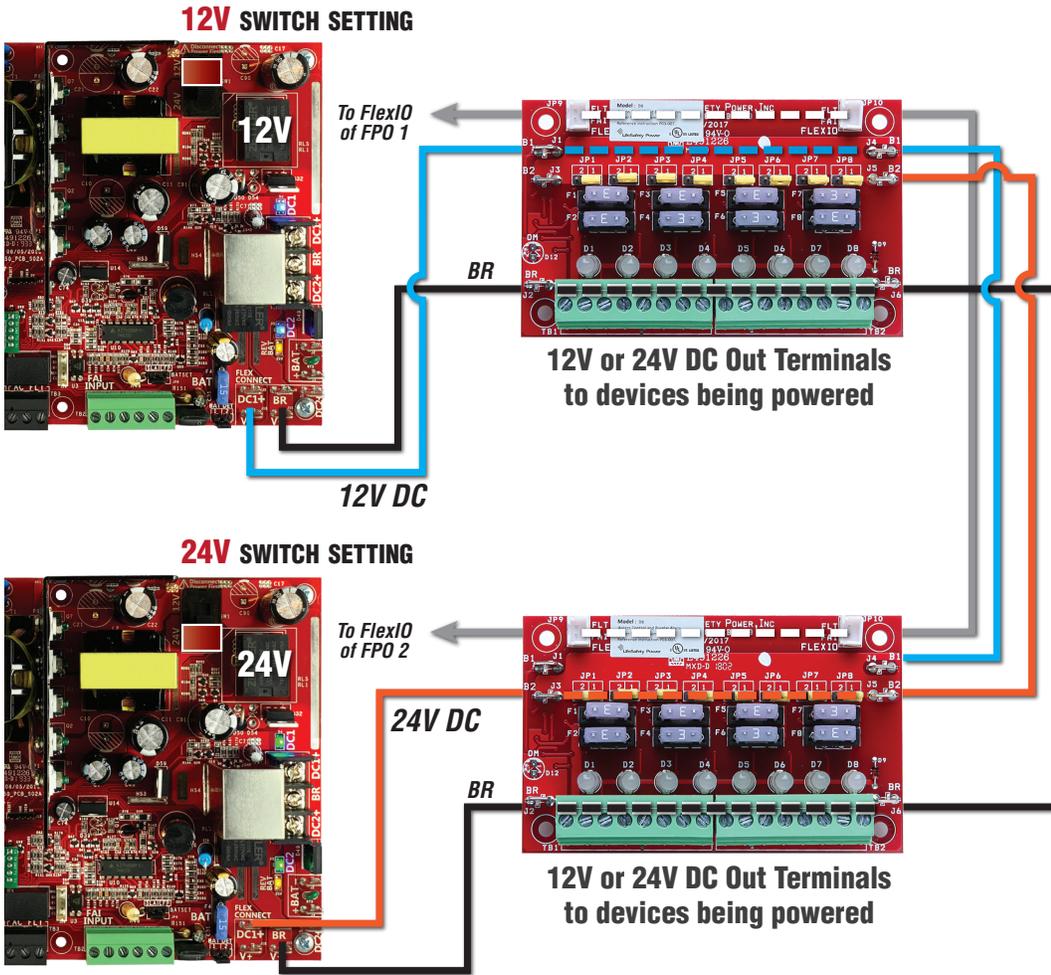
These busses include the primary voltage (Buss 1), the optional secondary voltage (Buss 2), System Common (BR), and the FAI and FlexIO Fault signals. (Fig. 2.) Each distribution or control accessory has two connections for each of these busses.

*Figure 2*



**APPLICATION EXAMPLE**

FlexConnect wiring example for a 12V and 24V dual voltage system.



**ACCESSORY BOARD ORDERING**

The specific LifeSafety Power part number is:

| Model Number | Description  |
|--------------|--|
| B100         | DC to DC converter provides +12VDC or adjustable voltage of 5 to 18VDC |
| C4           | 4 input, 4 output lock controller, fuse protected                      |
| C4P          | 4 input, 4 output lock controller, power limited                       |
| C8           | 8 input, 8 output lock controller, fuse protected                      |
| C8P          | 8 input, 8 output lock controller, power limited                       |
| D8           | 8 output DC power distribution module, fuse protected                  |
| D8P          | 8 output DC power distribution module, power limited                   |
| F8           | 8 output programmable power distribution module, fuse protected        |
| F8P          | 8 output programmable power distribution module, power limited         |

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