

## BDCBB/BDFB

### -48 VDC Power Distribution Bay

#### Overview

The Eltek BDCBB/BDFB can be equipped as a single bus bay or offer up to six load busses – depending upon the desired configuration. The bay is designed to provide 800 amps per feed at -48V, and has a maximum total current capacity of 4800 amps.



## BDCBB/BDFB

### -48 VDC POWER DISTRIBUTION BAY

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#### BENEFITS

##### Configuration

The BDFB can be configured with up to six load busses and utilizes TPS/TLS fuses to 125 amps and or plug-in breakers up to 250 amps.

##### Capacity

At 800A per feed at -48V, it offers a total current capacity of 4800A.

##### ABS Circuit

Optional Alarm Battery Supply (ABS), which allows for continued alarm and controller access in the event of power loss.

##### Access and Control

The Smartpack2 controller offers remote and local access to system data, programmable settings, and alarming and monitoring features.

#### PRODUCT DESCRIPTION

The distribution bay is equipped with the industry-leading Smartpack2 controller, which displays system load voltage and current on each bus. In addition to standard alarms, the Smartpack2 controller's extensive programing capabilities allow for custom alarm threshold values, alarm grouping and more through both remote and local access.

The bay can be ordered either with or without an internal ground bus assembly. Optional external ground bars are also available. It is designed for top- or bottom-feed cabling.

Each bay includes a standard cable management package.

Optional rear-facing DC load cabling available.

#### KEY FEATURES

- ADVANCED-FUNCTION SMARTPACK2 CONTROLLER
- CABLE MANAGEMENT PACKAGE
- OPTIONAL ALARM BATTERY SUPPLY (ABS) CIRCUIT
- FUSE AND/OR CIRCUIT BREAKER DISTRIBUTION:
- UPGRADEABLE IN THE FIELD
- 15" DEEP, 7' TALL WITH OPTIONAL 2' EXTENSIONS
- 26" AND 34"-WIDE BAY OPTIONS
- EITHER TWO, FOUR, OR SIX 800 AMP A/B INPUT FEEDS, EACH EQUIPPED WITH 1000 AMP SHUNTS
- TWO 750 KCMIL TERMINATIONS PER FEED
- OPTIONAL INCREASE TO FOUR 750 KCMIL TERMINATIONS PER FEED
- AUDIBLE ALARM WITH USER-CONFIGURABLE ON/OFF FEATURE
- REMOVABLE SIDE PANELS
- NEBS LEVEL 3; CSA/VDE 60950-1, 2ND EDITION

## TECHNICAL SPECIFICATIONS

### ENVIRONMENTAL

Operating Temperature	-5°C to 30°C
Storage Temperature	-40°C to 70°C
Safety Compliance	EN/UL 60950-1, 2nd Edition
NEBS Compliance	Level 3
EMC	GR-1089
Environmental	GR-63
Earthquake Rating	Zone 4

### GENERAL

Dimensions (D x H x W)	15" x 84" x 26" / 34" (two width options)
Maximum Weight (approx.)	375 lbs. (26" bay) / 415 lbs. (34" bay), fully loaded

### CAPACITY

Total Capacity	Six Panels, 144 positions (72 per A/B load)
Distribution	Breakers or fuses

### CABLING

Maximum Input Cable Size	Two 750 kcmil per feed (option of four terminations per feed)
Input Lug Specs	Two-hole 3/8" on 1" centers
Output Lug Specs	One-pole breakers: Two-hole 1/4" on 5/8" centers (one-pole breakers) Two- and three-pole breaker adapters: Two-hole 3/8" on 1" centers

Doc 2102146 Issue 3.1

Specifications are subject to change without notice

### SMARTPACK2 CONTROLLER FEATURES



#### Load History and Statistics

- Average and peak values of all monitors

#### SD Card Slot

- Stores event log, data log and energy log
- Backup configuration and setup
- Upload firmware to control system

#### Ethernet Port

- 10/100BASE-T Ethernet
- Auto-MDI/MDIX (detects the type of cable connected and configures the port accordingly)

#### Energy Logging

- Both total and individual energy consumption are logged

#### Monitoring

- Individual load panels have both voltage and current monitored
- Load alarm monitoring
- Load descriptions are configurable

#### Additional Features

- Large, full-color screen
- User-friendly touchpad navigation
- Status messages clearly displayed
- SNMP Traps
- Supports Eltek CAN nodes, including alarm, battery, and load monitors