

LORAIN® DB 48500 Battery Distribution Fuse/Circuit Breaker Bay

■ DC Power for
Business-Critical Continuity

Key Features

- **Modular design** — initial and field installed Battery Distribution Fuse and Circuit Breaker Panels (BDF/CBB Panels)
- **Mini applications** — one BDF/CBB panel provides two (2) 500 amp buses for a total 1000 amp continuous rating with 16 fuse or circuit breaker positions
- **High capacity** — offers up to ten buses with 5,000 amps continuous rating per frame, with maximum loading up to 80 fuse or circuit breaker positions
- **Fuse protection** — plug-in fuseholders with TPS / TLS fuses ranging from 1-100 amps and GMT-A fuses from .18 to 15 amp
- **Circuit breaker protection** — bullet nose plug-in breakers from 1-150 amps
- **Digital Meter Panel** — features 2 line display, 6 programmable external alarm relays, audible alarm and cutoff, and overcurrent threshold alarms
- **Optional LVD function** — provides load-shedding capability
- **NEBS level 3 compliance** — meets or exceeds all relevant GR1089, GR63 and UL specifications

Description

The LORAIN® DB 48500 Battery Distribution Fuse/Circuit Breaker Bay (BDF/CBB) features high capacity and modularity. These features provide effective secondary load distribution and protection for multiple -48 VDC feeds up to 800 amps.

The LORAIN® DB 48500 system consists of a Digital Meter Panel and up to 13 BDF/CBB panels with a maximum of 5 BDF/CBB panels per frame.

The BDF/CBB Panels mount on standard 23-inch frames and each panel is split into two sides of load distribution with each side providing 8 distributions for a total of 16 positions per panel. Each side has a capacity of 500 amp for a total of 1000 amp per panel. Each side of the panel can have an individual power feed, or the left and right sides of the panel mounted above / below each other can be paralleled for a single input feed of 800 amp per paralleled side. Each side of the BDF/CBB panels can be parallel for single input of 16 positions for 500 amps. Each panel can be equipped with two optional 10-position GMT fuse blocks for additional distribution.

Application

For mini applications the LORAIN® DB 48500 can be configured with one BDF/CBB Panel and a Digital Meter Panel that provides A & B input feeds and 16 fuse or circuit breaker loads with a total 1000 amp capacity. Multiple BDF/CBB Panels, up to 5 modules on a frame, provide up to 10 input buses 5,000 amp continuous rating with a total 80 fuse or circuit breaker loads.

Additional Information

For additional specification, engineering and installation information request document SAG582135200.

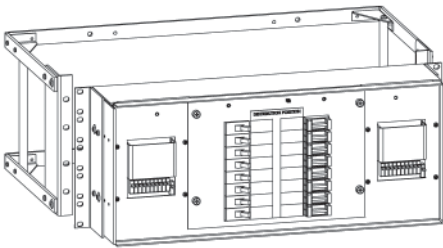


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Options

Option	Description
Top or Bottom Feed	Top or bottom input power feeds
Internal Ground	Internal return / ground bus
Parallel Buses	Interpanel parallel feed and ground buses
GMT Fuse Modules	Two 10-position GMT fuse blocks per panel (one A and one B)
LVD Function	Disconnects each side of BDF/CCB panel with self-latching contactor under control of Meter Panel

BDF / CBB Panel



Specifications

Fuses

Bullet nose-type fuseholder

TPS / TLS fuses 1 –100 amp

GMT fuse module

GMT-A fuses .18 to 15 amp

Circuit Breakers

Bullet nose-type circuit breakers 1 to 150 amp

Monitoring



Specifications

Digital Meter Panel

2 line display with 3 navigation buttons

Visual alarms

Audible alarm and alarm cutoff

6 programmable relays for external alarms

Current threshold alarms

Programmable LVD control

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