

## KEY FEATURES

- Small footprint and multiple wiring attachment points allow for ease of installation
- Current monitoring is provided by a 25mV shunt included within each breaker and fuse
- Voltage trip breakers permit remote shutdown/disconnect
- Safety features include a Lock Out-Tag Out (LO/TO) attachment point and a door latch that is tool-secured for restricted access
- Alarm options include a Form C, CBA/FA alarm and a door open alarm
- An LED indicator provides a visual display of the status of the breaker/fuse for each position
- Disconnect assists in compliance with local codes

Feature-rich design provides flexibility; small footprint allows for relay rack mounting.



586400100 List 1 e/w Fuse

## Product Overview

The Lorain® BD 800 provides disconnection and overcurrent protection for +24 VDC or -48VDC battery strings. Disconnects are available in single and dual positions. Over-current protection is provided by a user-specified fuse or breaker rated from 300 to 800 amps per position. A shunt, included with the over-current protection device, measures charge and discharge current and can be monitored by a Lorain VPS or LVS MCA, Vertiv™ Monitoring Equipment, or any monitoring system using a 25mV shunt input. The disconnect can be wall-mounted or 23" rack mounted as required. Breakers equipped with voltage trip coils can be used to satisfy code requirements for EPO circuits.

The built-in shunt measures charge and discharge current for the batteries. Battery damage is prevented and battery life is increased with the use of a built-in PS shunt card and an optional VPS or LVS MCA set up to limit battery recharge current. Voltage trip breakers permit remote operation. An EPO switch may be used to comply with local and national fire codes (NEC).

Safety and security features include a cover that can be locked in place during maintenance operations to prevent access to the battery breakers or fuses. A door alarm switch provides a set of contacts that will change state whenever the door is opened. Any access or operation of the door can be monitored using this feature. The door latch can also be tool-secured for restricted access.

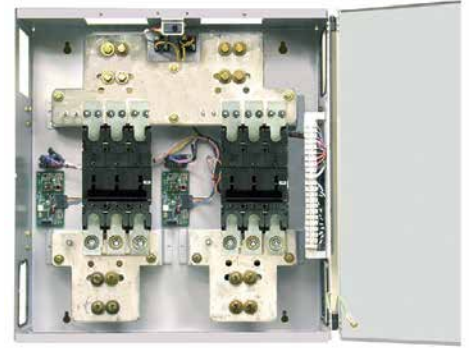
## Application

The Vertiv™ Battery Disconnect is ideal for a data center, wireless site or central office applications. For additional specification, engineering or installation information, specify model Lorain® BD 800, specification number 586400100 for disconnect.

## Technical Specifications

### 586400100

<b>Rating (Amps)</b>	300-800 per position
<b>Rated Voltage</b>	60VDC
<b>Operating Voltage</b>	+24VDC/-48VDC
<b>Max Size of Overcurrent Device</b>	800 Amps Breaker/Fuse
<b>Dimensions (H x W x D)</b>	Single: 6U x 21-3/8" x 7-1/4" (265mm x 543mm x 184mm) Dual: 13U x 21-3/8" x 7-1/4" (576mm x 543mm x 184mm)
<b>Weight</b>	Single: Net 40 lbs., Shipping 50 lbs. Dual: Net: 76 lbs., Shipping 90 lbs.
<b>Int Rating (kIAC) Fuse/Breaker</b>	100kAIC Fuse/50kAIC / Breaker/10kAIC Disc
<b>Compliance</b>	UL/cUL Listed to 1801
<b>FA/CBA Alarm Contact Rating</b>	0.5A@125VAC, 1.0A@30VDC, 0.3A@110VDC
<b>Door Alarm Contact Rating</b>	1A-125VAC, 2A-24VDC, 0.1A@125VDC (Form C contacts)
<b>Operating Temperature</b>	0-40°C
<b>Mounting</b>	Wall or 23" Relay Rack Mounted



586400100 List 2 e/w Breakers