



LBD-Series:

Battery Disconnect Panels

The LBD-Series Battery Disconnect Panels provide battery protection in rack mount and enclosure style while freeing up valuable real estate within your cabinet.

General Specifications

Standards:	UL Listed
Dimensions:	Rack mounts to EIA standard EIA-310-D, 1-3RU, 19" or 23" panel
Enclosure:	14 gauge Galvaneel steel w/ powder coat finish, & Bare metal ground.
Current Ratings:	250 amps/ 1RU;400 amps/2RU 700 amps/3RU
Circuit Breaker	
Voltage Ratings:	125 vdc
Interrupting Capacity:	50,000 amps @ 60 vdc
Alarm Feature:	Std. 1 form C contact for power ON/OFF, 1 form C, Contact for breaker OFF/TRIPPED.
Ambient Temperature:	-40°C to +60°C
LED indicators:	Green lamp for power indication. Red lamp for alarm indication.
Rack Mount Insulators:	UL94V-0 material over all live parts.
Meter Shunt Option:	Optional meter shunt provides 25m V at rated current.
Chassis Ground:	Bare metal to rack mount flange & 1/4 - 20 stud to bare metal.
Lug Connections:	Busbars accept 2-hole std. telecom lugs up to 750 mcm cable. 1 lug-up to 250 amps; 2 lugs-up to 400 amps; 3 lugs- up to 700 amps. Lugs can be mounted on either or both sides. Lugs can be through bolted on each side of the bus bar, doubling lug capacity.
Lugs Required:	1.75" hole spacing, 1/2: bolt lug, max. 1.75" wide

The LBD-Series battery disconnect panels were designed with performance, style and size in mind. Carling Technologies has packed this product line with ratings up to 700A, interrupt capacity of 50,000A, PDC voltage ratings of -36 to -60 VDC and in sizes starting as small as 1 rack unit (1RU) x 19", up to 3RU.

The LBD-Series addresses the demanding requirements associated with today's Telecommunication Networks.

Features & Benefits

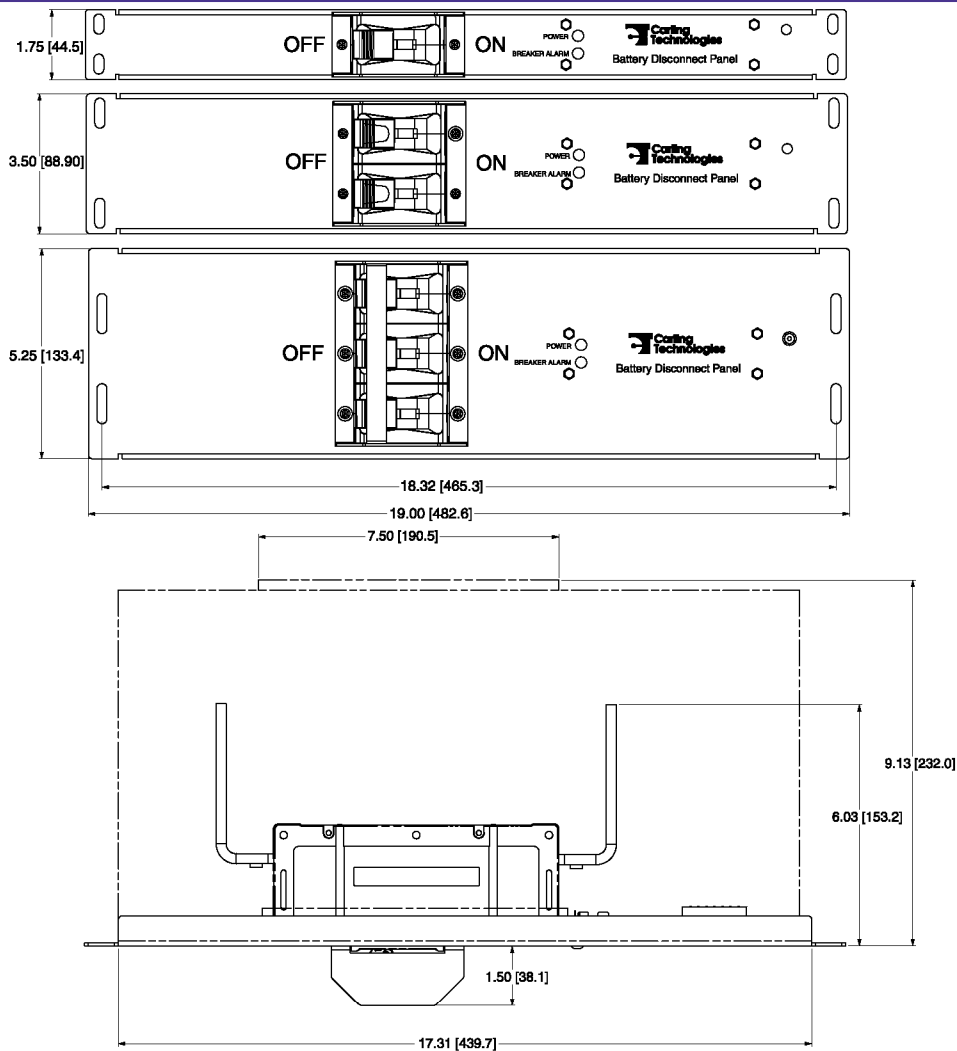
- Panel incorporates Carling F-Series high amperage hydraulic/magnetic breakers: providing a superior level of performance.
- Each panel is sized for maximum protection in the smallest size possible to conserve valuable cabinet space. Starting with a compact 1RU x 19" rack rated up to 250 amps @ 60 vdc with a 50,000 AIC.
- Front panel access.
- Insulator covers are standard to protect live parts once the panel is installed.
- Front panel is provided with a circuit breaker handle guard to protect from unintentional operation.
- LED indications are standard for visual monitoring.
- The LBD provides, as a standard, a circuit breaker alarm feature to alert breaker trip or off conditions.
- Voltage, or current monitoring, and remote shut down options are offered.
- Cable connections on thick silver plated, copper busbars, which accept standard 2-hole telecom lugs from 1 AWG to 750 MCM sizes.
- Lugs can be mounted on either or both sides of the bus bars.

LBD-Series Ordering Scheme

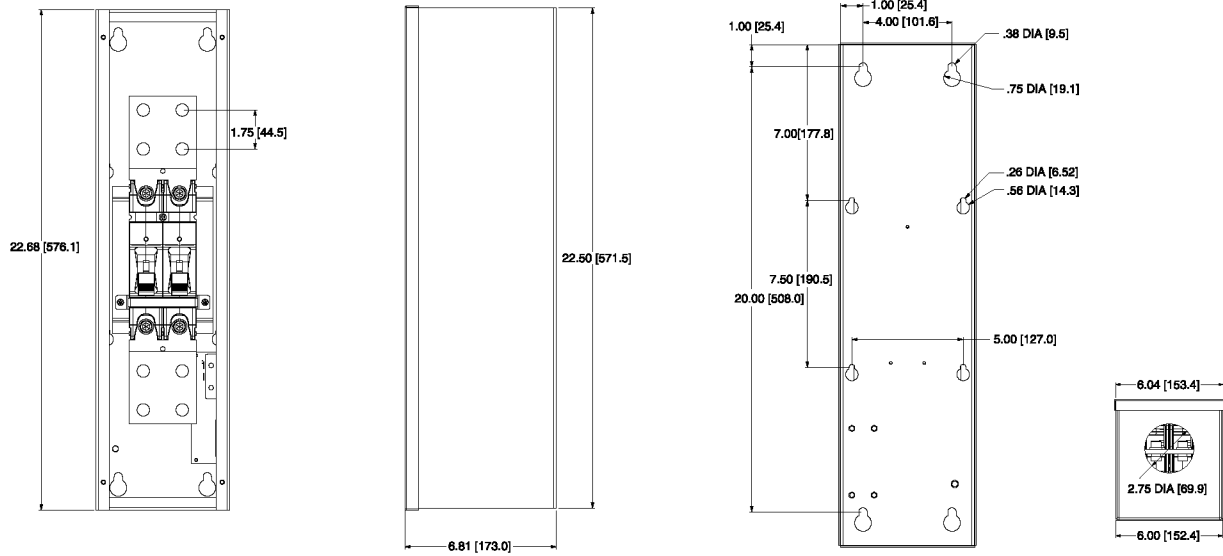

1 SERIES LBD			
2 STYLE			
P	Rack Mount	E	Enclosure/Wall Mount
3 RACK SIZE			
1	19" rack	2	23" rack
		E	Enclosure
4 FUNCTION			
0	Switch Only	2	Series Trip with Aux. Switch
1	Series Trip	3	Mid-trip with Alarm Switch
5 CURRENT RATING			
810	100 amp (1RU)	825	250 amp (1RU)
820	200 amp (1RU)	840	400 amp (1RU)
		860	600 amp (1RU)
		870	700 amp (1RU)

6 BUS BAR TYPE	
A	figure 1
B	figure 1 w/ PEM studs
7 METERING SHUNT	
0	No shunt
A	Metering shunt
8 REMOTE DISCONNECT VOLTAGE	
0	No remote option
A	24 vdc
B	48 vdc
C	120 vdc
D	240 vdc
9 SPECIAL OPTIONS	
0	None
X	Consult factory
10 APPROVALS	
A	No approvals
B	UL Listed

NOTES:
 Circuit breakers are provided with a DC medium delay curve.
 1 Current & voltage monitoring are available as special options. Select X in position 9, and advise factory.

LBD-Series Rack Mount Dimensional Specifications


LBD-Series Wall Mount Dimensional Specifications



Circuit Breakers

Circuit breakers can be ordered separately to upgrade or reconfigure panel at a later date. Standard circuit breaker part numbers are listed on the chart below. For other ratings, consult factory.

TRIP TIME (SECONDS)		F-SERIES TIME DELAY VALUES							
		PERCENT OF RATED CURRENT							
Delay	100%	125%	150%	200%	400%	600%	800%	1200%	
14	No trip	10.0-11.0	.600-40.0	2.50-15.0	.500-3.00	.180-1.00	.010-.280	.008-.080	

General Specifications:
 UL489, CSA and VDE approved
 10,000 amp interrupting capacity

