



One Rack Unit Power Distribution Center



The NEW One Rack Unit (1RU) Power Distribution Center saves valuable real estate on a rack, while offering ease of installation and service.

To help conserve valuable panel space, Carling Technologies introduces a new one rack unit (1RU) DC Power Distribution Center (PDC) for the telecom industry. This new panel is designed to fit industry standard 19" rack systems. The 1RU is listed to UL/CUL 1801 and designed to EN60950.

The Carling circuit breakers installed in the 1RU are plug in style to allow for hot swapability and front access, and are rated to 100 amps per pole with a standard 10,000 amp interrupting capacity rating and a special 50,000 amp interrupting capacity on request.

Even as a "condensed" panel, this new 1RU exceeds the tough demands of today's applications, while still offering safety, reliability and performance.

Product Announcement 1RUPDC3/15/02

For additional information on our 1RU PDC, please contact a Carling Technologies Technical Customer Service Rep:

Phone	(860) 793-9281
Fax	(860) 793-9231
email	sales@carlingtech.com
internet	www.carlingtech.com
mail	Carling Technologies, Inc. 60 Johnson Avenue Plainville, CT 06062-1177



Carling Technologies™

Advanced Systems Group

General Specifications

Standards: UL 1801 , CUL Approved
TUV, CE approval pending

Dimensions: Rack mounts to EIA standard
EIA-310-D 19" rack for a 1RU panel, 1.75"H.

Enclosure: 16 gauge galvaneel steel

Enclosure finish: Powder coat, Gray

Feeds: Dual feeds, rated up to 150 amps per feed.
Max. circuit breakers per feed: 6
Max. breaker rating: 50 amps.
Connections: single hole ring terminal up to 2/0 awg
For 150 amps continuous max.

Load Connections: Requires 8 awg wire/ring or fork terminal for 50 A/75 C Rating,
Top or bottom wire entry.

Operating Voltage: -36V to -60V DC (-48VDC nominal)

Alarm Feature: Power alarm: If either A or B FEED or both fail.
Breaker alarm: If any populated breaker is OFF or "tripped."
Alarm is not affected by unused breaker positions.
LED indicators on the front panel.

LED indicators: Green lamps on A and B feeds.
Red lamp for alarm indication.


Chassis Ground: Via studs on the back panel and rack brackets to bare galvanized metal on the PDC. Use two hole X 5/8" center lugs.

Features and Benefits

- Hot "swappable" circuit breakers that can be installed, changed, or replaced in the field or factory.
- Circuit breakers are front panel accessible.
- Breaker removal tools available upon request for installation and removal of circuit breakers.
- Maximum of six UL489 listed circuit breakers per feed.
- One Rack Unit (1RU) size.
- Panel plugs provided for non populated circuit breaker slots.
- Short handle circuit breakers to prevent accidental operation.
- Panel is easily configurable and upgradeable in the field. Provides flexibility when designing added features or options.
- Conserves valuable cabinet space to meet the tough demands of today's applications.
- Consult factory or your local Carling Technologies representative for any custom panel requirements.

Ordering Scheme

LDC1	A	L	05	20	40	01	03	50	A
1 Series	2 Breaker Function	3 Delay	4 Breaker in Position 1	5 Breaker in Position 2	6 Breaker in Position 3	7 Breaker in Position 4	8 Breaker in Position 5	9 Breaker in Position 6	10 Approvals



1 SERIES
LDC1

2 BREAKER FUNCTION

N No breaker
A Standard trip
S Mid-trip

3 DELAY

N No breaker
M Medium Delay, Curve 14
L Long Delay, Curve 16

4 through 9 BREAKER RATING

00 No breaker
01 1 amp
03 3 amps
05 5 amps
10 10 amps
15 15 amps
20 20 amps
25 25 amps
30 30 amps
35 35 amps
40 40 amps
45 45 amps
50 50 amps

10 APPROVALS

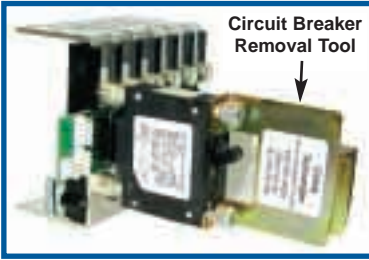
A No approvals
G UL/CUL
J UL/CUL, CE, TUV

NOTES:

1 Redundant feed. Breaker layout will be duplicated on the second feed.

2 Feeds A and B are rated for 150 amps. Total combined breaker ratings can not exceed 150 amps.

Circuit Breakers

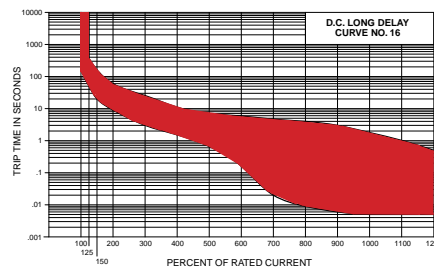
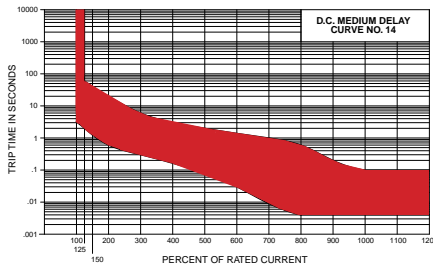


Circuit breakers can be ordered separately to upgrade or reconfigure panel at a later date. Standard circuit breaker part numbers are listed on the chart below. For other ratings, consult factory.

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

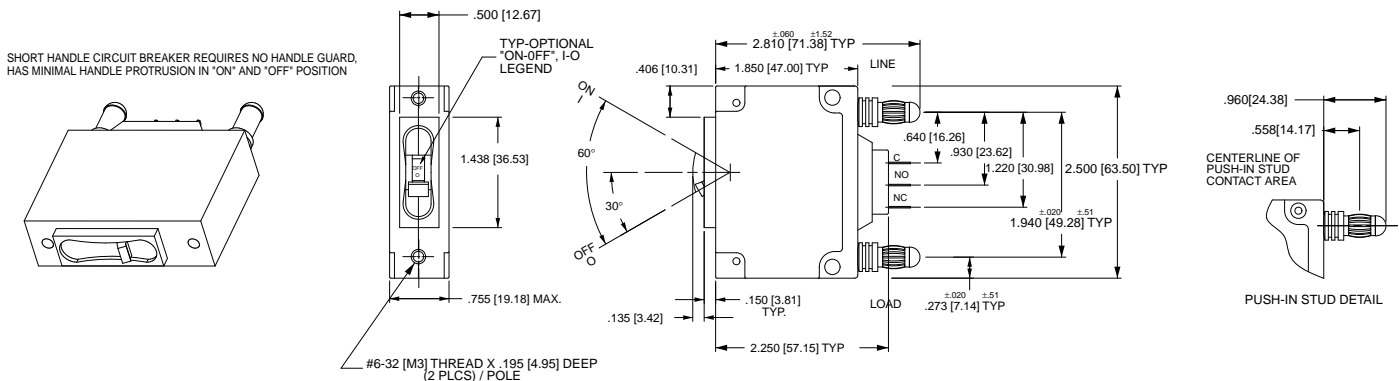
To order **breaker removal tool**, specify part number 8C1-X0-08-639.

Rating	Standard Trip		Mid-Trip	
	Medium Delay, Curve #14	Long Delay, Curve #16	Medium Delay, Curve #14	Long Delay, Curve #16
1 amp	CA1-X0-09-031-AX1-MF	CA1-X0-08-561-AX1-MF	CS1-X0-09-032-AX1-MF	CS1-X0-09-033-AX1-MF
3 amp	CA1-X0-08-981-AX1-MF	CA1-X0-07-803-AX1-MF	CS1-X0-08-992-AX1-MF	CS1-X0-09-003-AX1-MF
5 amp	CA1-X0-08-982-AX1-MF	CA1-X0-07-804-AX1-MF	CS1-X0-08-993-AX1-MF	CS1-X0-09-004-AX1-MF
10 amp	CA1-X0-08-983-AX1-MF	CA1-X0-07-805-AX1-MF	CS1-X0-08-994-AX1-MF	CS1-X0-09-005-AX1-MF
15 amp	CA1-X0-08-984-AX1-MF	CA1-X0-07-806-AX1-MF	CS1-X0-08-995-AX1-MF	CS1-X0-09-006-AX1-MF
20 amp	CA1-X0-08-985-AX1-MF	CA1-X0-07-807-AX1-MF	CS1-X0-08-996-AX1-MF	CS1-X0-09-007-AX1-MF
25 amp	CA1-X0-08-986-AX1-MF	CA1-X0-07-645-AX1-MF	CS1-X0-08-997-AX1-MF	CS1-X0-09-008-AX1-MF
30 amp	CA1-X0-08-987-AX1-MF	CA1-X0-07-646-AX1-MF	CS1-X0-08-998-AX1-MF	CS1-X0-09-009-AX1-MF
35 amp	CA1-X0-08-988-AX1-MF	CA1-X0-07-808-AX1-MF	CS1-X0-08-999-AX1-MF	CS1-X0-09-010-AX1-MF
40 amp	CA1-X0-08-989-AX1-MF	CA1-X0-07-809-AX1-MF	CS1-X0-09-000-AX1-MF	CS1-X0-09-011-AX1-MF
45 amp	CA1-X0-08-990-AX1-MF	CA1-X0-07-810-AX1-MF	CS1-X0-09-001-AX1-MF	CS1-X0-09-012-AX1-MF
50 amp	CA1-X0-08-991-AX1-MF	CA1-X0-07-811-AX1-MF	CS1-X0-09-002-AX1-MF	CS1-X0-09-013-AX1-MF

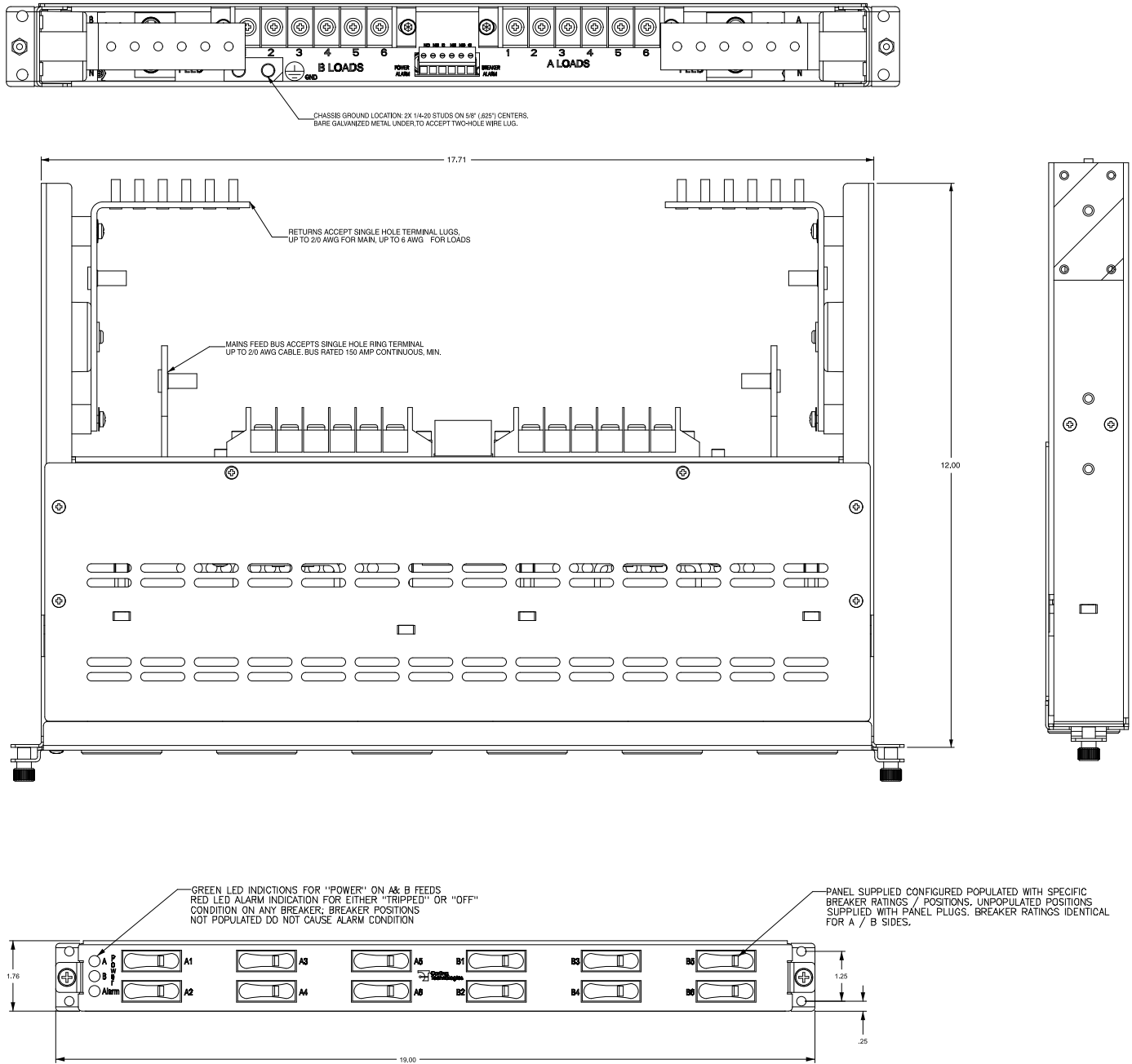


		Percent of Rated Current									
Trip Time	Delay	100%	125%	150%	200%	400%	600%	800%	1000%	1200%	
Seconds	14	no trip	2.00-60.0	1.20-40.0	.600-20.0	.150-3.00	.030-1.30	.004-.600	.004-.100	.004-.100	
	16	no trip	45.0-345	20.0-150	9.00-60.0	1.40-11.4	.150-5.80	.009-3.70	.005-1.70	.005-.500	

Circuit Breaker Dimensional Specifications



Dimensional Specifications



Complete Solutions

To discuss any new power distribution requirements or for "value engineering" of a present system, consult with Carling's technical staff. With our extensive test, research and development capabilities, Carling has assisted many customers in solving unique design and application problems with cost effective, standard, modified or customized solutions. This new 1RU, and the items shown below, are examples of our commitment to designing quality solutions for our customers.

