LDC1-Series DC Secondary Power Distribution

LDC1-Series:
19” or 23” One Rack Unit

The LDC1-Series One Rack Unit (1RU) 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 1RU DC Power Distribution Unit (PDU) for the telecom industry. This new PDU 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 60 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.

General Specifications

| Standards:          | UL subject 1801, CUL, TUV Approved
|                     | CE approval pending
| Dimensions:         | Rack mounts to EIA standard EIA-310-D 19” rack for a 1RU panel, 1.75”t.
| Enclosure:          | 16 gauge galvanized 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:     | LED indicators on the front panel.
| Chassis Ground:     | Via studs on the back panel and rack brackets to bare galvanized metal on the distribution unit. Use two hole x 5/8” center lugs.

Features & 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 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.
- Optional Rack Extenders to expand the panel mounting from a 19” rack to a 23” rack.

Part Numbers:
- 8L1-A-DC1A (offset mounting)
- 8L1-A-DC1B (center mounting)

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LDC1-Series Ordering Scheme

<table>
<thead>
<tr>
<th>LDC1</th>
<th>AL</th>
<th>05</th>
<th>20</th>
<th>40</th>
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2 BREAKER FUNCTION

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3 DELAY

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4 through 9 BREAKER RATING

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<th>05</th>
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<td>5 amps</td>
<td>10 amps</td>
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40 | 50 | 60 |
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10 APPROVALS

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NOTES:
- Redundant feed. Breaker layout will be duplicated on the second feed.
- Feeds A and B are rated for 150 amps. Total combined breaker ratings cannot exceed 150 amps per feed.

LDC1-Series Dimensional Specifications

- Chassis ground location: 2x #14-20 studs on 5/8” (62.5 mm) centers. Bare or insulated metal under to accept two-hole wire lug.
- Returns accept single-hole terminal lug, for load up to 20 A for main, up to 6 A avg.
- Main feed bus accepts single-hole ring terminal up to 45 A for main, 10 A avg.
- Cable lug rated 100 A/amp continuous, min.
- Green LED indicates for “Power” on A & B feeds.
- Red LED indicates for either “Tripped” or “Off” condition on any breaker. Breaker positions not populated do not cause alarm condition.

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