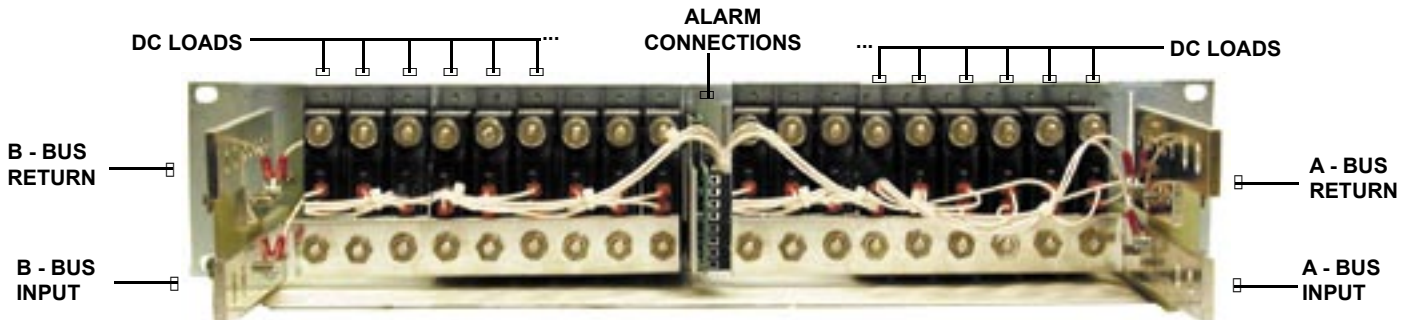








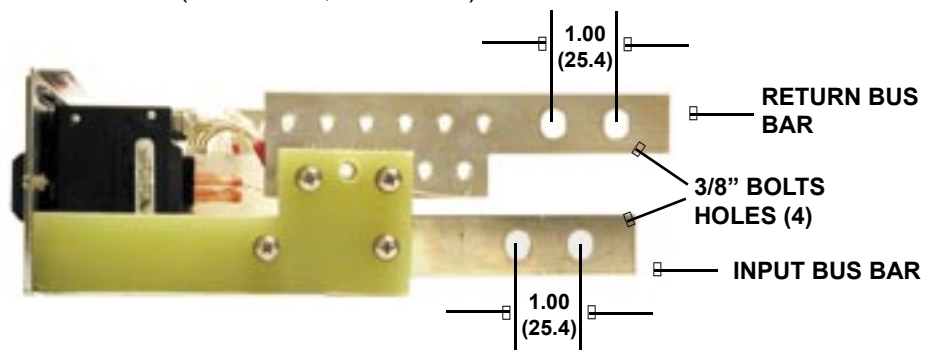

DPB2U-AB CIRCUIT BREAKER PANEL

BACK VIEW
ALARM BOARD

| | | | |
|---|-------------------------------------------------------------------------------------|-------------|----------------------------------------------------------------|
| 1 |  | RTN - A BUS | } CONNECTION ONLY IF THERE IS NO RETURN BUS ON THE PANEL |
| 2 |  | RTN - B BUS | |
| 3 |  | NO - A BUS | } FORM C - A BUS |
| 4 |  | COM - A BUS | |
| 5 |  | NC - A BUS | |
| 6 |  | NO - B BUS | } FORM C - B BUS |
| 7 |  | COM - B BUS | |
| 8 |  | NC - B BUS | |

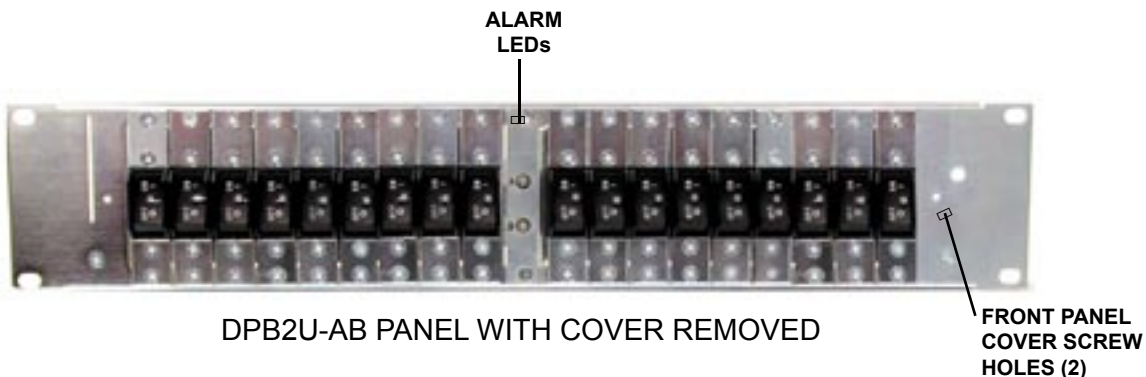
INPUT BUS BAR CONNECTIONS

(SIDE VIEW, OPTION R)



DPB2U-AB OPERATING INSTRUCTIONS**OPERATING NOTES:**

1. The DPB2U-AB Panel has models for either positive or negative polarity on the DC input bus.
2. The input bus connections are on both sides of the panel. The A bus bar is on the left side, and the B bus bar is on the right side, as seen from the front of the panel. Connections should be made to two 3/8-inch bolts with nuts (supplied by user). 1/0 2-hole barrel lugs with holes for 3/8-inch bolts and 1.00 inch (25.4 mm) spacing may be used. The bottom bus bars are the "hot" or live sides of the DC inputs; for Option R, the top bus bars are the returns.
3. DC loads are connected to the top of each circuit breaker to 1/4-20 bolts with nuts and washers.
4. J1 terminals 1 and 2 of the alarm board must be connected to the external A and B return buses if using the standard model with no return bus bars.
5. The optional Form C relay outputs NC, C, and NO (option D) are connected to for each bus as shown on the Alarm Board. Option D also includes alarm circuit red/green LEDs for both A and B buses on the front panel. The tripping of any circuit breaker causes an alarm and the LED turns red. For normal operation it is green; if power is lost it turns off.

REMOVING AND/OR ADDING A CIRCUIT BREAKER

Removing and/or adding a circuit breaker to a DPB2U-AB is easily accomplished by means of the following instructions. Additional circuit breakers may be ordered from UNIPOWER Telecom and come in kit form with a mounting bracket, screws and clip-on wires.

WARNING! Removing or adding a circuit breaker should only be done by a qualified technician who is experienced in power supply application. The changes should be done with power disconnected from the circuit breaker panel if possible. If it is necessary to make the changes with a “live” operating panel, then extreme caution should be taken, including using an insulated-handle socket wrench and screw driver.

REMOVING A CIRCUIT BREAKER

1. If possible, remove power connections to DPB2U-AB panel and put all breakers in the “OFF” position.
2. Remove front panel cover by removing the screws on each side.
3. Disconnect the desired circuit breaker at the rear by removing the top and bottom 1/4-20 nuts and washers.
4. Disconnect the NO and C wires at the breaker (if power is still connected to the panel, this will cause the alarm to activate).
5. On the front panel, remove the top and bottom screws holding the breaker mounting bracket to the chassis.
6. From the front panel pull the circuit breaker and brackets out.

ADDING OR REPLACING A CIRCUIT BREAKER

1. If possible remove power connections to DPB2U-AB panel and put all breakers in the “OFF” position.
2. Remove front panel cover by removing the screws on each side.
3. Screw the circuit breaker onto its mounting brackets. The longer breaker bracket and the breaker “on” position should both be “up”.
4. Insert the breaker into the front panel observing the “up” orientation and screw in place by means of the top and bottom screws of the brackets.
5. Connect the back of the breaker to the input bus bar (at bottom) and to the load circuit (at top) by screwing on the 1/4-20 nuts and washers.
6. Snap on the “NO” and “C” wires (for Form C relay option) to the correct terminals on the back of the breaker. Connect the “NO” terminal (middle) of breaker on the right to the “C” terminal (bottom) of the new breaker; connect the “NO” terminal of the new breaker to the “C” terminal of the breaker on the left. This can be seen by observing the breakers that are already connected.
7. Replace the front panel cover by screwing in the two screws (right and left sides of the panel).

NOTE: If there are any questions on any of these procedures, please contact the factory.

DESCRIPTION

Unipower Telecom's DPB2U-AB Series circuit breaker panels provide distribution and overload protection for up to 18 DC circuits. The panels are two rack units (3.50 inches) high. They distribute up to 300 amperes of load current for each A or B bus, with each bus having up to 9 circuit breakers. Each bus can be independently configured. The buses can be configured for 12, 24 or 48 volts, positive or negative grounds.

Magnetic circuit breaker capacities are from 1 to 100 amperes. The breakers can be removed and replaced from the front of the unit by disconnecting on the back and removing the front panel cover. Optional breaker alarms have dual-color LEDs (green/red) and Form C relay contacts.

The input bus terminations are to copper bus bars. The standard model does not have return bus bars but option R does.

The panels can be ordered for mounting in either a 19- or 23-inch relay rack. They are flush mounted to the rack.

SAFETY CERTIFICATIONS

UL60950
CSA 22.2, No. 60950
EN60950

TWO-YEAR WARRANTY



2RU DUAL DISTRIBUTION PANELS

| MODEL | BUS | BREAKERS/BUS | MOUNTING |
|-------------|-----------|--------------|----------|
| DPB2U-AB-19 | DUAL 300A | 1 - 9 | 19 Inch |
| DPB2U-AB-23 | DUAL 300A | 1 - 9 | 23 Inch |

OPTIONS

| CODE | DESCRIPTION |
|------|----------------------------------------------|
| D | Alarm Circuit LEDs + Form C Relay (A & B) |
| R | Return Bus Bars |

FEATURES

- ◆ Two Rack Units High: 3.50"
- ◆ Field Changeable Breakers
- ◆ Field Replaceable Alarm Board
- ◆ 19- or 23-Inch Rack Mounting
- ◆ Magnetic Circuit Breakers
- ◆ Dual, Independent A/B Buses
- ◆ Optional A/B Return Bus Bars
- ◆ Fully Independent A/B Alarms
- ◆ 1 to 9 Breakers per Bus
- ◆ 1A to 100A per Breaker
- ◆ 300A per Bus, 600A Total
- ◆ Voltage: 12, 24 or 48VDC
- ◆ Positive or Negative Ground
- ◆ LED and Form C Relay Alarm Option
- ◆ -20° to +70°C Operating Temperature

www.unipowertelecom.com
954-346-2442

