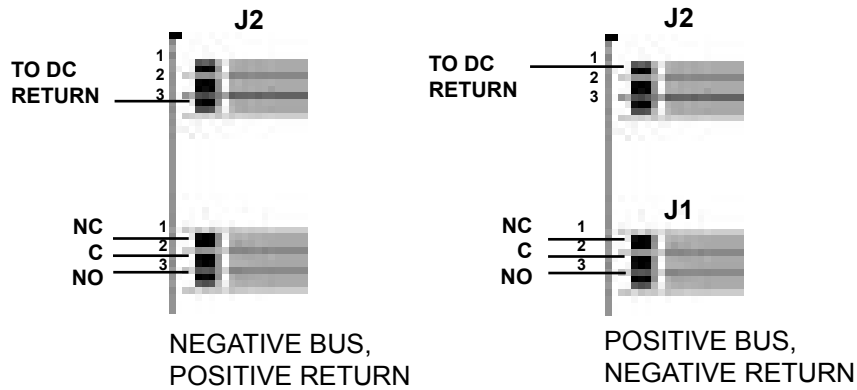


DPB2U CIRCUIT BREAKER PANEL

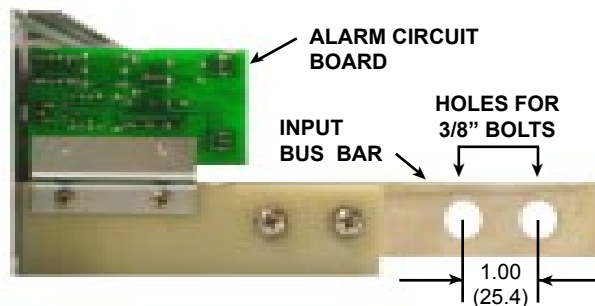


BACK VIEW

***ALARM BOARD
(FORM C RELAY OUTPUTS)**



**INPUT BUS BAR CONNECTION
(SIDE VIEW, OPTION E)**

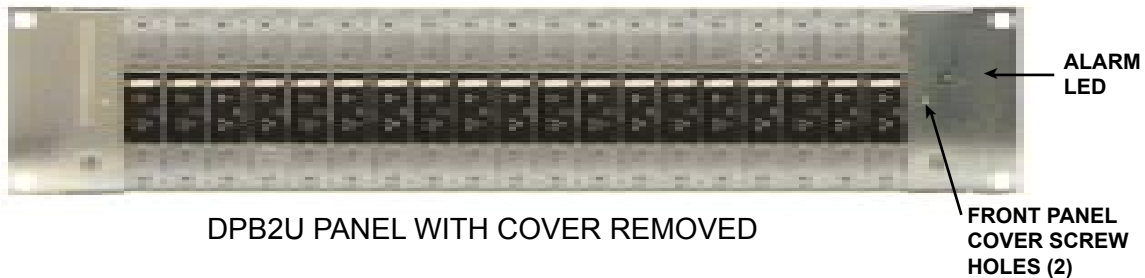


DPB2U OPERATING INSTRUCTIONS

OPERATING NOTES:

1. The DPB2U Panel can be operated with either positive or negative polarity on the DC input bus.
2. Input bus connection is on the right side of the panel (as seen from the front) for the standard panel and on the left side for the optional (option E) panel. Connection is made to two 3/8" bolts with nuts. A 1/0 2-hole barrel lug with holes for 3/8" bolts and 1.00 inch (25.4 mm) spacing may be used. The input bus bar is "hot" or live side of the DC inputs.
3. A load return bus is not provided on this panel. It must be provided externally by the user. DC loads are connected to the top of each circuit breaker to 1/4-20 bolts with nuts and washers.
4. J2 pin 3 of the alarm board must be connected to the Return bus bar for a negative input bus; J2 pin 1 must be connected to the Return bus bar for a positive input bus.
5. The optional Form C relay outputs, NC, C, and NO are connected to as shown. Option D also includes an alarm circuit LED. 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 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.

DPB2U OPERATING INSTRUCTIONS

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 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 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 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 Series of circuit breaker panels provide distribution and overload protection for up to 19 DC circuits. The panels are two mounting positions (3.50 inches) high. They distribute up to a total of 300 amperes of load current from a single source. The panel can be configured for 12, 24 or 48 volts, positive or negative ground.

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 then removing the front panel cover. An optional breaker alarm has a dual-color LED (green/red) and Form C relay contacts.

The standard input bus termination is on the left side (as seen from the front). A right side bus termination can be ordered as an option.

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

DPB2U SERIES

2RU DC DISTRIBUTION PANELS

MODEL	BUS	BREAKERS	MOUNTING
DPB2U-19	SINGLE 300A	1-19	19 Inch
DPB2U-23	SINGLE 300A	1-19	23 Inch

FEATURES

- ◆ Two Mounting Positions High: 3.50"
- ◆ Field Changeable Breakers
- ◆ 19- or 23-Inch Rack Mounting
- ◆ Magnetic Circuit Breakers
- ◆ Single Bus with 1 to 19 Breakers
- ◆ Voltage: 12, 24 or 48VDC
- ◆ Positive or Negative Ground
- ◆ 1A to 100A per Breaker
- ◆ Bus Capacity: 300A
- ◆ Green/Red LED Breaker Alarm Option
- ◆ Form C Relay Contacts Option
- ◆ -40° to +70°C Operating Temperature

