

DPBF1U SERIES

FRONT ACCESS/CONNECT

DC BREAKER DISTRIBUTION PANELS

DESCRIPTION

UNIPOWER's DPBF1U Series of all Front Connected DC circuit breaker distribution panels provide distribution and overload protection for 8 DC loads up to 30A. The 1RU mounting position (1.75 inches) high DC breaker panels provide 8 single-bus loads or 4/4 dual-bus (A&B) loads (up to 30A max. per load). They distribute up to a total of 96A of load current from two separate 96A sources with true A and B distribution and alarm capabilities. The single feed version will distribute up to 150A.

A and B sections of the dual-bus panel are isolated and can be separately configured for 12, 24/48 volts and are polarity neutral. Breaker sizes are 1 to 30 amperes.

Breaker trip and power off alarms are indicated by a LEDs for each bus and one Form C relay contact per bus.

The panels come with brackets that permit mounting in either a 19- or 23-inch relay rack. They can be mounted from the front of the rack with offsets every quarter-inch from front to back to align with existing rack-mounted equipment.

FEATURES

- ◆ All Connections Made at the Front
- ◆ 1RU Mounting Position High: 1.75"
- ◆ 19- or 23-Inch Rack Mounting
- ◆ DC Magnetic Breakers w/ Rockers & Guards
- ◆ Single Bus with 4 or 8 Breakers
- ◆ Dual Bus (A/B) with 4 Breakers per Bus
- ◆ Bus Capacity: 96A or 150A per Bus
- ◆ Operating Voltage: 12, 24/48VDC
- ◆ POLARITY NEUTRAL
- ◆ A & B are Isolated Loads
- ◆ A & B Can Be Separately Configured
- ◆ Status LED
- ◆ Alarm: One Form C Relay Contact per Bus

THREE YEAR WARRANTY

SAFETY CERTIFICATIONS

UL60950-1 2nd Edition
 CSA22.2, No. 60950-1 2nd Edition
 EN60950-1 2nd Edition



STANDARD MODELS

| MODEL NUMBER | VOLTS EACH FEED | INPUT FEEDS | BREAKER POSITIONS | AMPS EACH BUS | TOTAL AMPS |
|------------------|-----------------|-------------|------------------------|---------------|------------|
| DPBF1U-A1x | 24/48 | 1 | 4 x 1 to 30A | 96 | 96 |
| DPBF1U-A6x | 12 | | | | |
| DPBF1U-A1x-B1x-S | 24/48 | 1 | 8 x 1 to 30A | 150 | 150 |
| DPBF1U-A6x-B6x-S | 12 | | | | |
| DPBF1U-A1x-B1x | 24/48 | 2 | 4 x 1 to 30A Each Feed | 96 | 192 |
| DPBF1U-A6x-B6x | 12 | | | | |

NOTE: The above are standard configurations. The 'x' denotes between one and four breakers which must be specified as part of the final model number. For voltage combinations not shown see the configuration guide on page 2 of this datasheet.

BREAKER RATINGS

| AMPS | CODE |
|------|------|
| 1 | F |
| 2.5 | G |
| 5 | H |
| 10 | I |
| 15 | J |
| 20 | K |
| 25 | L |
| 30 | M |

NOTE: Breakers CANNOT be field installed/replaced and must be specified at time of order, see ordering guide on page 2 of this datasheet.

SPECIFICATIONS

Typical at 25°C Unless Otherwise Noted.

INPUT / OUTPUT

Panel Capacity.....See Panel Configuration Table Configuration
 Single Bus.....1 to 8 Breakers
 Dual Bus.....1 to 4 Breakers Each
 Breaker Capacity¹.....1A to 30A
 Voltage²
 24/48V Nominal.....21-60VDC
 12V Nominal.....10.5-15VDC
 Polarity.....Polarity Neutral

ALARMS

Alarm Indicator.....Dual-Color LED Per Bus
 LED Status Indication.....Green = Normal
 Red = CB Trip Alarm
 Off = No Power
 Alarm Connections.....One Form C Relay Contact Per Bus

SAFETY STANDARDS.....UL69950-1 2nd Ed, CAS22.2 No.950-1 2nd Ed.,
 .EN60950-1 2nd Ed.

ENVIRONMENTAL

Operating Temp. Range.....-10°C to +70°C
 Storage Temp. Range.....-40°C to + 85°C
 Humidity.....0% to 95%, Non-Condensing

PHYSICAL SPECIFICATIONS

Case Material.....Steel
 Finish.....Powder Coat Black
 Dimensions, Inches (mm).....1.75 H x 19.00 W x 9.00 D
 (44.5 x 483 x 229)
 Weight.....10.30 lbs. (4.67 kg.)
 Rack Mounting Width.....19 or 23 Inches

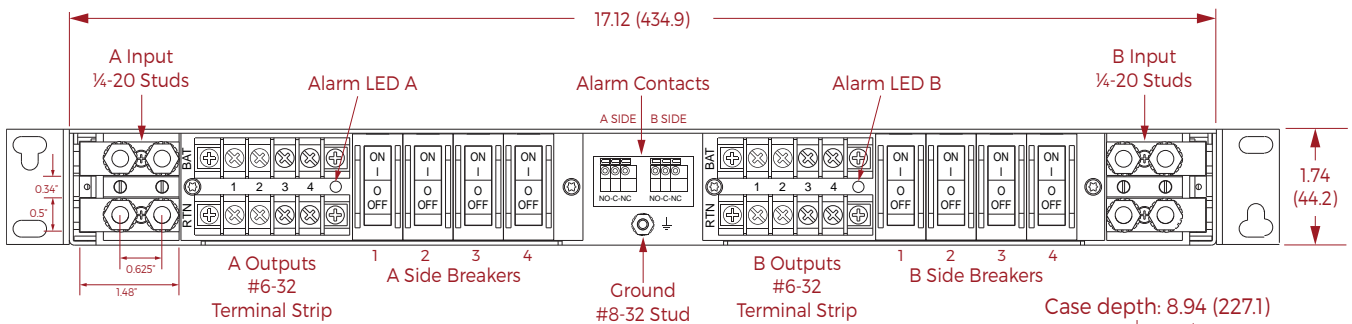
CONNECTIONS

Input Connections.....Crimp Type Lug or ¼ - 20 Stud
 Output Strips.....Barrier Terminal Strips, No. 6-32
 Chassis Ground Connection.....No. 8-32 Stud
 Alarm Relay Connections.....Spring Clamp Terminals,16-26AWG

NOTES:

1. See table for available breaker sizes.
2. See Ordering Guide to specify voltage.

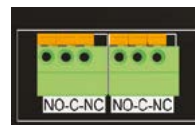
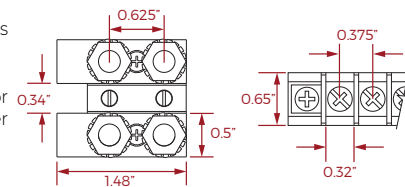
FRONT VIEW



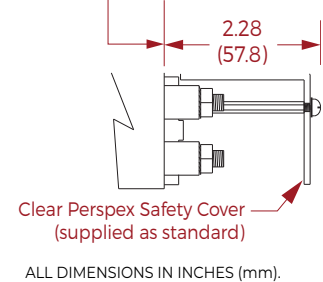
CONNECTION DETAILS

Crimp Lugs for input bus bars should be ordered separately.

For a kit of 4 two-hole lugs for #6AWG wire order part number 775-1434-0000.



Connectors are Phoenix Contact spring clamp type. Wires (16-26AWG) do not require any termination.



ORDERING GUIDE

| CODE | VOLTAGE |
|------|---------|
| 1 | 24/48V |
| 6 | 12V |

POLARITY NEUTRAL - May be connected for Positive or Negative Ground operation.

- Notes:
1. If section B is not used a blank panel is installed at the factory and the "-B" is not required in the model number (see Standard Model tabel on page 1).
 2. The sum of all breaker currents on either side must not exceed 150 Amperes.
 3. When the 'S' option is specified each side of the panel is limited to 75A (total 150A).

Model No.: DPBFIU-A□-□□□□-B□-□□□□-□

| CODE | OPTION |
|------|-------------------|
| S | Single Bus 8-way* |

* A & B sides must be identical voltage and connected with the same polarity.

| BREAKERS | |
|----------|------|
| AMPS | CODE |
| 1 | F |
| 2.5 | G |
| 5 | H |
| 10 | I |
| 15 | J |
| 20 | K |
| 25 | L |
| 30 | M |