

# DPB2U-AB SERIES

## DC DISTRIBUTION PANELS

### 18 Pluggable Breakers & Dual 300A Inputs

#### DESCRIPTION

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 includes return bus bars as option R, but they can be ordered without if not required.

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

#### 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
- ◆ 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 +Ve or -Ve

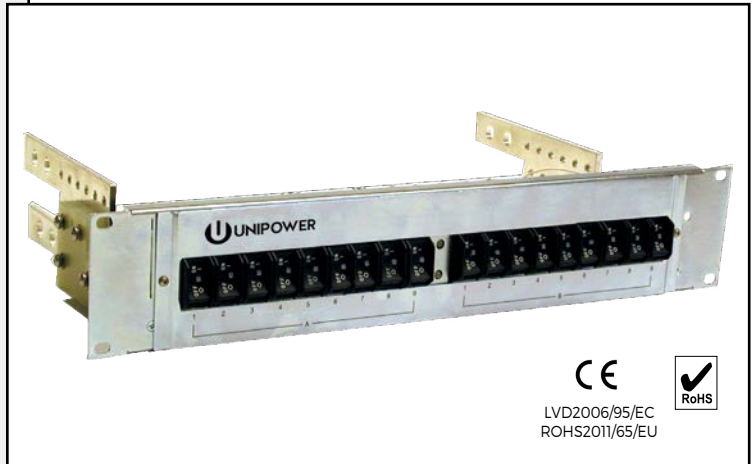
#### THREE YEAR WARRANTY

#### SAFETY COMPLIANCE

UL60950-1 2<sup>nd</sup> Edition  
 CSA22.2, No. 60950-1 2<sup>nd</sup> Edition  
 EN60950-1 2<sup>nd</sup> Edition

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#### BASE CONFIGURATIONS

BASE MODEL NUMBER	MOUNTING	INPUT FEEDS	MAX. # BREAKERS PER BUS	AMPS EACH FEED	TOTAL AMPS
DPB2U-AB-19	19"	2	9	300	600
DPB2U-AB-23	23"				

NOTE: See ordering guide for complete model configuration.

#### OPTIONS

CODE	DESCRIPTION
D <sup>1</sup>	Alarm Circuit LEDs + Form C Relay (A & B)
R <sup>2</sup>	Return Bus Bars

**NOTE:**

1. Voltage and polarity designation is ONLY required in the model number if an alarm board is fitted. Panel will only be limited by current.
2. Always fitted unless specifically not required.

## SPECIFICATIONS

Typical at 25°C Unless Otherwise Noted.

### INPUT / OUTPUT

Panel Capacity.....	300A Per Bus, 600A Total
Configuration <sup>1</sup> .....	Dual A/B Bus, 1 to 9 Breakers Each
Breaker Capacity <sup>2</sup> .....	1A to 100A
Voltage <sup>3</sup>	
48V Version.....	42-60VDC
24V Version.....	21-30VDC
12V Version.....	10.5-15VDC
Polarity <sup>3</sup> .....	Positive or Negative Ground

### CIRCUIT BREAKER A & B ALARM OPTION

LED Alarm Indicators.....	Dual-Color LEDs
LED Status Indication.....	Green = Normal Red = Alarm Off = No Input Power
Alarm Connections.....	A/B Form C Relay Contacts

**SAFETY STANDARDS**.....UL60950-1 2<sup>nd</sup> Ed., CSA22.2 No.60950-1 2<sup>nd</sup> Ed., EN60950-1 2<sup>nd</sup> Ed.

### ENVIRONMENTAL

Operating Temp. Range.....	-20°C to +70°C
Storage Temp. Range.....	-40°C to +85°C
Humidity.....	0% to 95%, Non-Condensing

### PHYSICAL SPECIFICATIONS

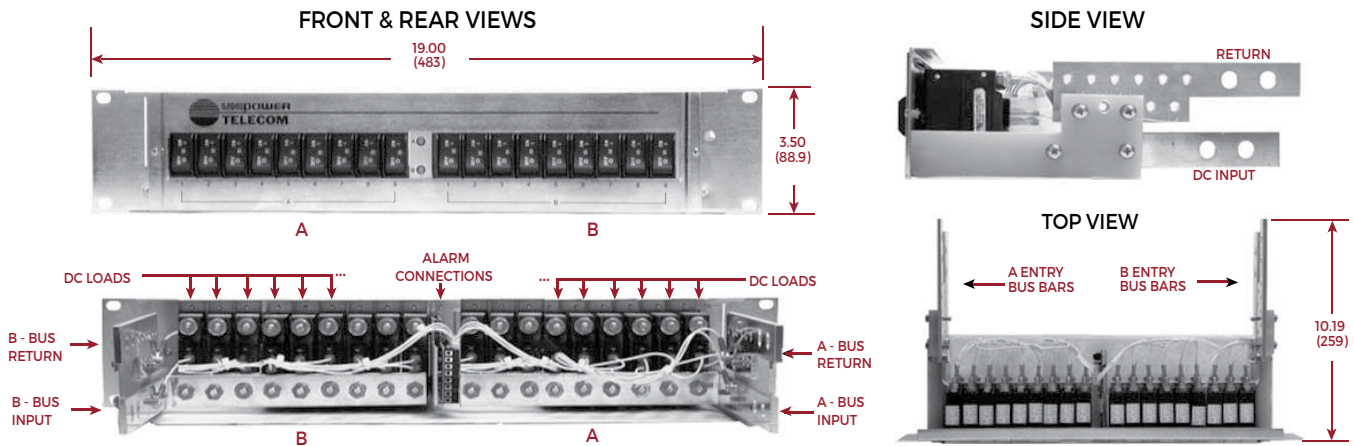
Case Material.....	Steel
Dimensions, Inches (mm)	
DPB2U-AB-19.....	3.50 H x 19.00 W x 10.19 D (88.9 x 483 x 259)
DPB2U-AB-23.....	3.50 H x 23.00 W x 10.19 D (88.9 x 584 x 259)
Weight.....	9.55 lbs. (4.33kg.)
Rack Mounting Width.....	19 or 23 Inches

### CONNECTIONS

Input Connections.....	Bus Bars with Holes for 3/8" Bolts
Output Connections.....	1/4-20 Studs on Ckt. Bkrs.
Fail Alarm Connections.....	Screw Terminals

### NOTES:

1. Circuit breakers are installed in positions 1 to 9 in descending order of current capacity. Unused positions have a blank panel installed. Breakers above 50A will have blank panel space between them.
2. See table for breaker capacities.
3. See Ordering Guide to specify voltage and polarity.



ALL DIMENSIONS IN INCHES (mm).

### ORDERING GUIDE

Model No.: DPB2U-AB-□-A□-□□□□□□□□-B□-□□□□□□□□-R-□

CODE	FORMAT
19	19" Rack-Mount
23	23" Rack-Mount

CODE	VOLTAGE & POLARITY
1	-48V (Pos. Gnd.)
2	+48V (Neg. Gnd.)
3	-24V (Pos. Gnd.)
4	+24V (Neg. Gnd.)
5	-12V (Pos. Gnd.)
6	+12V (Neg. Gnd.)

STANDARD BREAKERS			
CODE	AMPS	CODE	AMPS
F	1	M	30
G	2.5	N	40
H	5	O	50
I	10	P	60
J	15	Q	70
K	20	T	80
L	25	R	100

Add -D to model number for Alarm Board with LEDs, 24 or 48V models only. A & B sides must be identical voltage and polarity.

Return Bars. Fitted as standard. Delete from configured model number if not required.

**NOTE:**  
Voltage and polarity designation is ONLY required in the model number if an alarm board, -D, is fitted.  
Panel will only be limited by current.