

## DPP2U SERIES

### DC DISTRIBUTION PANELS

#### 20 Pluggable Breakers & Dual 450A Inputs

### DESCRIPTION

UNIPOWER's DPP2U Series circuit breaker panels provide distribution and overload protection for 1 to 20 circuits with circuit breakers that can be field installed/exchanged using a supplied puller tool. The panels are only two mounting positions (3.5 inches) high.

Standard models provide up to 20 breakers dual-bus 900A (10A/10B) distribution and alarm capabilities. The A and B sections of the dual-bus panel are fully isolated and are polarity neutral. Breaker capacities range from 2.5 to 200 amperes. A single-bus 450A model is also available.

Breaker and power fail alarms are indicated by a dual color LED (green/red) and Form C relay contacts for each bus.

Rear accessed load cables connect via 2-hole anti-rotation posts. All connections are straight on for easy installation.

### FEATURES

- ◆ 48/24V Dual Voltage
- ◆ POLARITY NEUTRAL
- ◆ 450A bus bar inputs (900A total)
- ◆ Dual Feed (optional Single Feed)
- ◆ "Mid-Trip" circuit breaker function
- ◆ Circuit Breaker 'puller' included
- ◆ Tapered entry for easy insertion
- ◆ NO or NC alarm contacts
- ◆ Alarm LEDs
- ◆ Power Fail form-C alarm
- ◆ 19" & 23" universal mounting brackets
- ◆ Rear panel safety cover standard

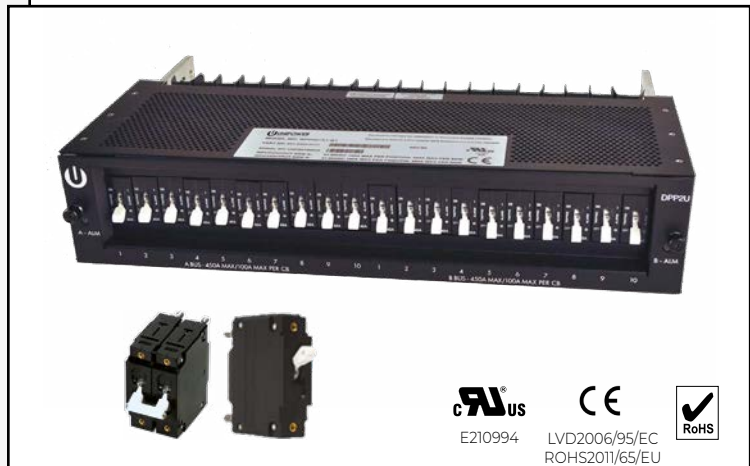
### THREE YEAR WARRANTY

### SAFETY CERTIFICATIONS

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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### DUAL FEED CONFIGURATION

MODEL NUMBER	VOLTS EACH FEED	INPUT FEEDS	MAX. # BREAKERS	AMPS EACH FEED	TOTAL AMPS
DPP2U-A1-B1	48/24 - 48/24	2	10 A side & 10 B side	450	900

### SINGLE FEED CONFIGURATION

MODEL NUMBER	VOLTS EACH FEED	INPUT FEEDS	MAX. # BREAKERS	AMPS EACH FEED	TOTAL AMPS
DPP2U-A1-B1-S	48/24	1	20	450	450

Note: All panels are shipped with 19 breaker position blanking plates.

### BREAKER ORDERING GUIDE<sup>1</sup>

AMPS	PART NUMBER	AMPS	PART NUMBER
2.5	348-1441-0020	50	348-1441-0500
5	348-1441-0050	60	348-1441-0600
10	348-1441-0100	80	348-1441-0800
15	348-1441-0150	100	348-1441-1000
20	348-1441-0200	125 <sup>2</sup>	775-1524-0000
25	348-1441-0250	150 <sup>2</sup>	775-1524-0010
30	348-1441-0300	200 <sup>2</sup>	775-1524-0020
40	348-1441-0400		

#### NOTES:

1. Breakers need to be ordered individually and are shipped separately.
2. Requires two positions. Includes paralleling bar to connect output load terminals.
3. Breakers are magnetic-hydraulic plug-in type with auxiliary contacts (Normally Open) and mid-trip function. Only the following types may be installed.

2.5A to 100A:

CBI D-Frame Series single pole, D-2A23XANBSXXXXLXB-XXXXXWDVAX2-X  
 or  
 Carling C-Series Handle single pole, CT1-B2-14-XXX-A11-MJ

125A to 200A:

CBI D-Frame Series, parallel pole, D-2A23XBNBSXXXXLAM-XXXXXWDVAX3-X  
 or  
 Carling C-Series Handle Parallel pole, CT2-P2-04-XXX-A11-MK

## SPECIFICATIONS

Typical at 25°C Unless Otherwise Noted.

### INPUT/OUTPUT

Panel Capacity	
@35°C.....	450A per Bus
@40°C.....	400A per Bus
@50°C.....	320A per Bus
@70°C.....	200A per Bus
Configuration.....	450A Single Bus with 1 to 20 Breakers 900A Dual Bus 1 to 10 Breakers Each Bus
Breaker Capacity <sup>1</sup> .....	2.5A to 200A
Voltage.....	21-60VDC
Polarity.....	Neutral, Positive or Negative Ground

### ALARMS

Alarm Indicator .....	Dual Color LED Per Bus
LED Status Indication .....	Green = Normal Red = CB Trip Alarm Off = No Power
Alarm Relays.....	Form C Contacts for each Bus

### SAFETY

Safety.....	UL60950-1 2 <sup>nd</sup> Ed., CSA22.2 No. 60950-1 2 <sup>nd</sup> Ed., EN60950-1 2 <sup>nd</sup> Ed.
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### 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
Case Dimensions, Inches (mm).....	3.45 H x 17.16 W x 5.98 D (87.6 x 435.9 x 151.9)
Safety Cover extension, Inches (mm).....	8.1 (205.7)
Weight (approx.).....	12.5 lbs. (5.67 kg.)
Rack Mounting .....	19 or 23 Inch

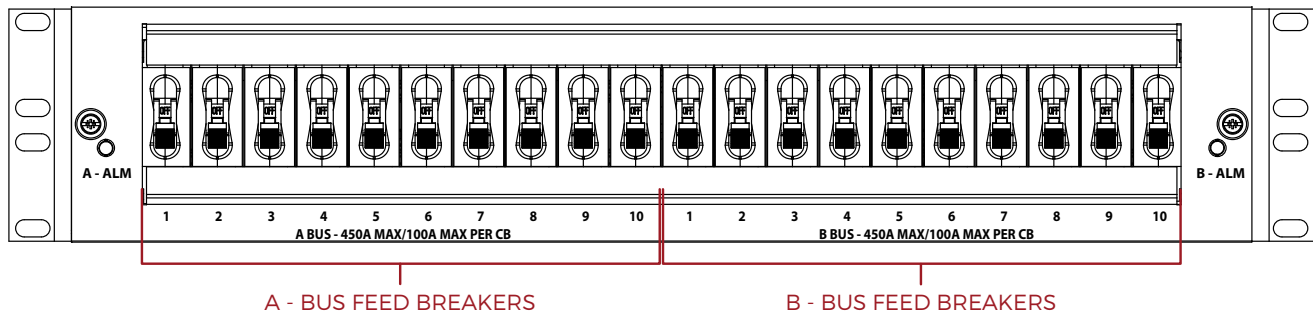
### CONNECTIONS

Input Connections.....	Bus Bar
Output Connections.....	1/4-20 Stud, 2-hole lugs
Chassis Ground Connection.....	1/4-20 Stud, 2-hole lugs
Alarm Relay Connections .....	Spring Clamp Terminals, 16-26AWG

Notes:

1. See ordering guide to specify.

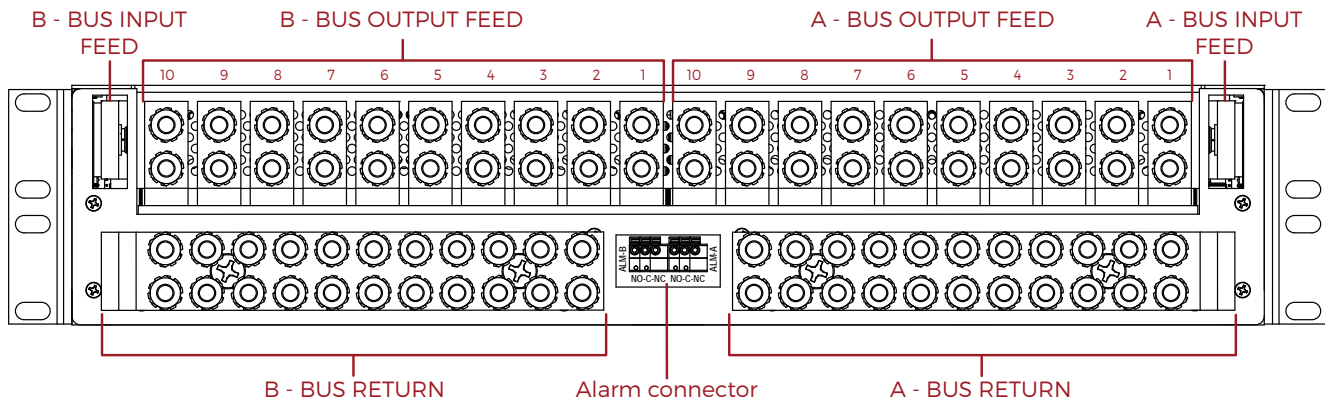
## FRONT VIEW



### NOTES:

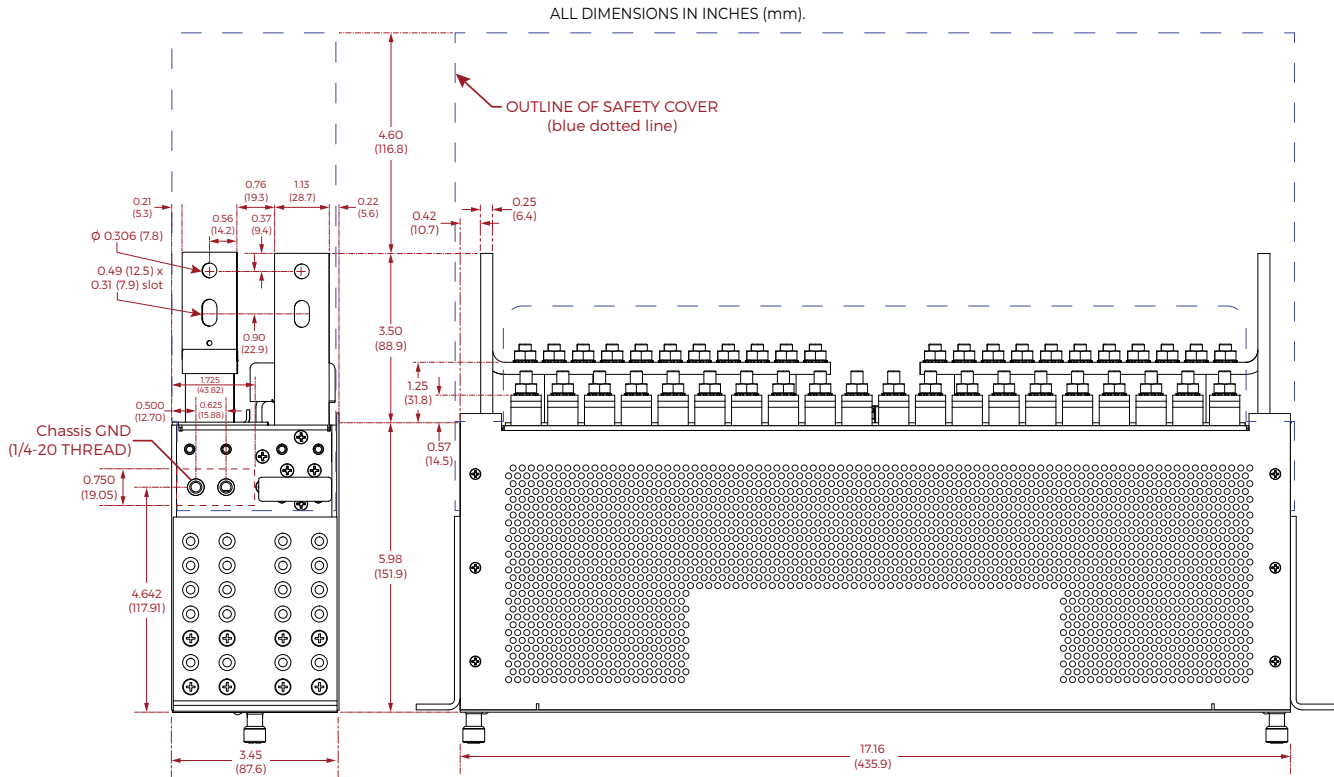
1. 125A, 150A & 200A breakers utilize two positions and must have blank spaces either side.
2. 80A & 100A breakers must have blank spaces either side.

## REAR VIEW



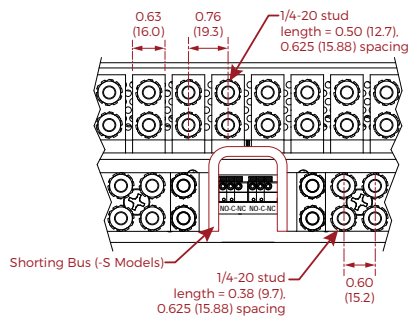
NOTE: Single feed model DPP2U-AI-BI-S has both left and right side input bus bars fitted. It is only necessary to connect the input feed to one side for correct operation. The unused side is directly connected to the live input feed and can be used for supplying additional panels. The total load must not exceed 450A on any one pair of bus bars in the chain.

## DIMENSIONS

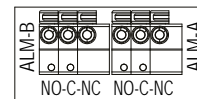


## CONNECTIONS

### OUTPUT TERMINAL DETAIL



### ALARM CONNECTOR DETAIL



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

## POWER CONNECTIONS

### Input Lug Connections

Max. wire size of 350 kcmil, Panduit LCC350-14BW-X or 250 kcmil FLEX Conductor, Panduit LCCX250-14B-X.

### Load Lug Connections

Max. wire size of #2 AWG FLEX Conductor, Panduit LCDXN2-14A-E or LCDXN2-14AF-E (90deg angle).

See product manual for more detailed information about making connections to this distribution unit:

[www.unipowerco.com/pdf/dpp2u-man.pdf](http://www.unipowerco.com/pdf/dpp2u-man.pdf).