

# DPP2U Series DC Distribution Panels

## Overview

The 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.

The dual-bus model provides up to 20 breakers 900A (10A/10B) distribution and alarm capabilities. The A and B sections are fully isolated from each other 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

## Standard Models

Model Number	Voltage	Input Feeds	Max. No. Breakers	Amps Each Feed	Total Amps
DPP2U-A1-B1	48V / 24V	2	10 A Side / 10 B Side	450	900
DPP2U-A1-B1-S	48 / 24V	1	20	450	450

Notes:

1. Single feed units have the input buses internally connected together and the total amperage is limited to 450A.
2. All panels are shipped with 19 breaker position blanking plates.

## Breakers

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	348-1441-0700
15	348-1441-0150	100	348-1441-1000
25	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 must be ordered individually and are shipped separately.
2. Require two positions. Includes load terminal paralleling kit.
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-2A23XANBSXXXLXB-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-2A23XBNBSXXXLAM-XXXXXWDVAX3-X  
 or  
 Carling C-Series Handle Parallel pole, CT2-P2-04-XXX-A11-MK



## Safety Certification

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

# DPP2U Specifications (Typical at 25°C Unless Otherwise)

## Input/Output

Panel Capacity	450A Max. @ 30°C, each side A & B 400A Max. @ 40°C, each side A & B 320A Max. @ 50°C, each side A & B 200A Max. @ 70°C, each side A & B
Configuration	see model table
Breaker Capacity	2.5A to 200A (see breakers table for order codes)
Voltage	21 to 60Vdc
Polarity	Neutral, Positive or Negative Ground

## Alarms

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

## Safety

Standards	UL60950-1 2nd Ed.; CSA22.2 No. 60950-1 2nd Ed.; EN60950-1 2nd Ed.
Alarm	Spring Clamp Terminals, 16-26AWG

## Environmental

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

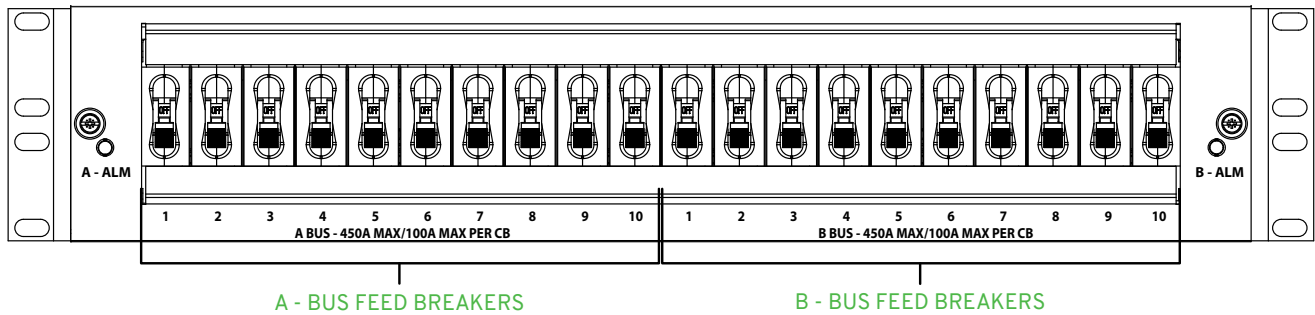
## Physical

Case Material	Steel
Finish	Powder Coat Black
Case Dimensions, Inches (mm)	1.74 (44.2) H x 17.12 (434.9) W x 8.94 (227.1) D
Weight (excluding breakers)	~13 lbs. ( 5.9 kg.)
Rack Mounting	19 or 23 Inch

## Connections

Input	Bus Bars
Output	1/4-20 Stud, 2-hole lugs
Chassis Ground	1/4-20 Stud, 2-hole lugs
Alarm	Spring Clamp Terminals, 16-26AWG

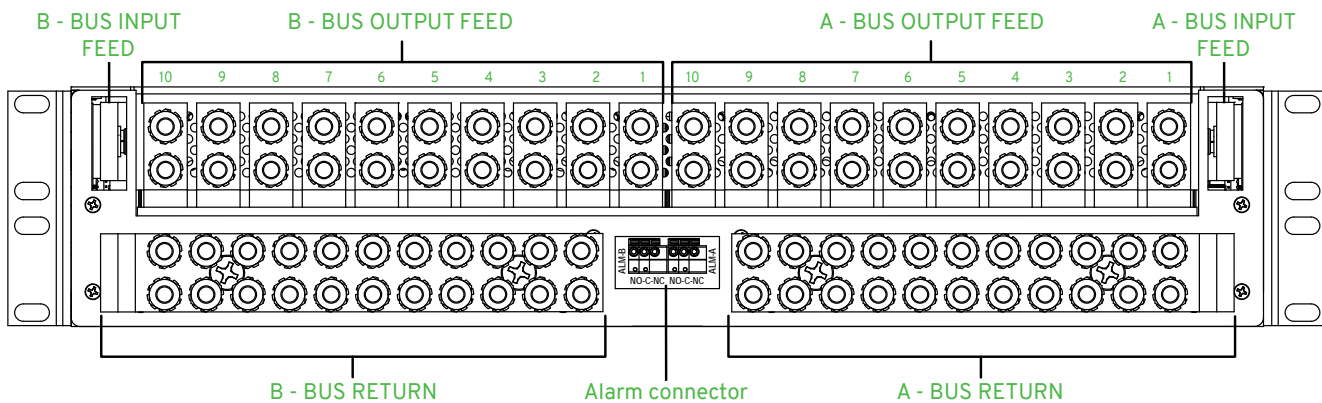
## Front View



### 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

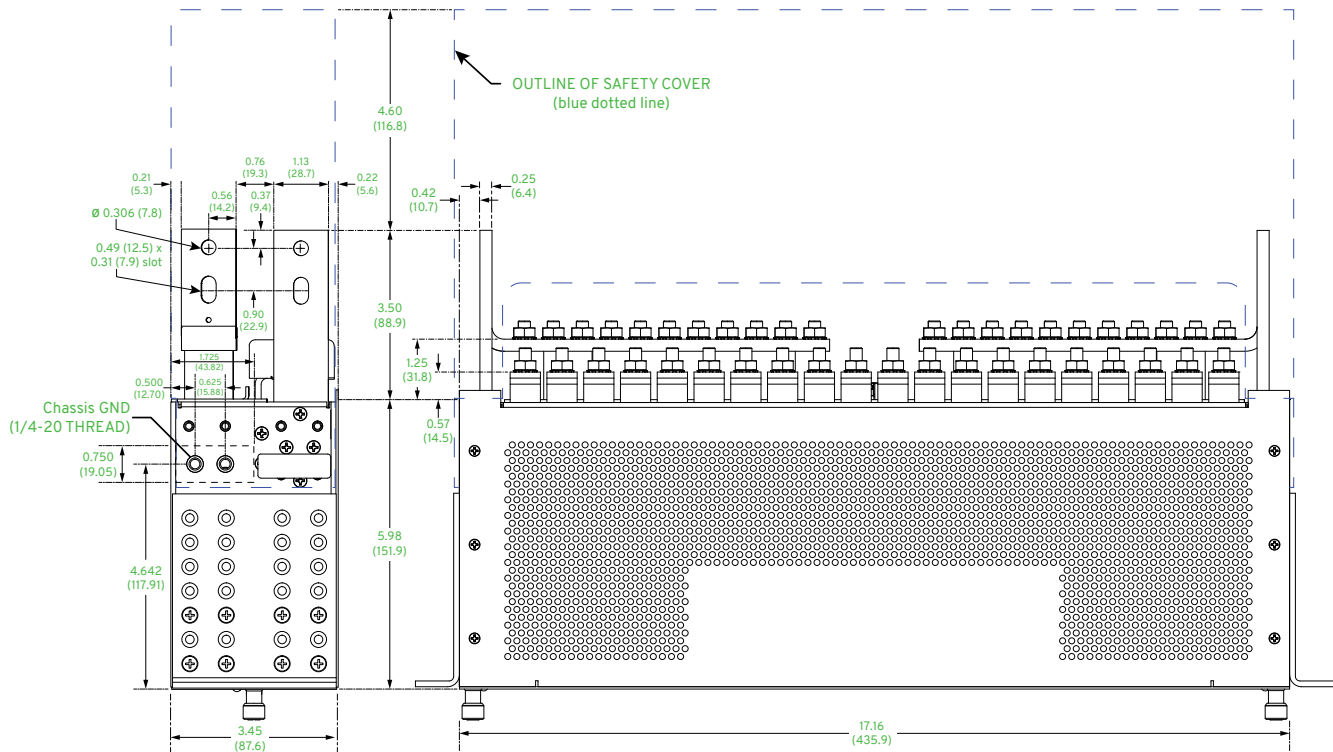


### NOTE:

Single feed model DPP2U-A1-B1-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.

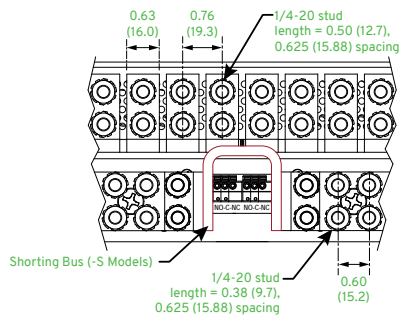
## Dimensions

ALL DIMENSIONS IN INCHES (mm).

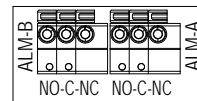


## Connections

### 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.

## ABOUT GREEN CUBES TECHNOLOGY

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Green Cubes provides complete power systems to the stationary power industry. With the addition of the Guardian and Aspiro Product lines offered under the UNIPOWER brand, these industry proven DC plant systems serve critical applications all around the world. Green Cubes offers complete power solutions including energy storage, power conversion, and seamless integration.

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