

# DPP1U Series DC Distribution Panels

## Overview

The DPP1U Series of circuit breaker panels provide distribution and overload protection for 1 to 16 circuits with circuit breakers that can be field installed/exchanged without the need for any additional tools. The panels are only one mounting position (1.75 inches) high.

The panels provide up to 16 breakers single-bus 150A or dual-bus 300A (8A/8B) distribution and alarm capabilities. The A and B sections of the dual-bus panel are fully isolated. Breaker capacities range from 1 to 30 amperes.

Breaker alarm is indicated by a dual color LED (green/red) and Form C relay contacts for each bus.

## Features

- Supports Li-Ion and VRLA batteries
- User-selectable alarm parameters
- USB or RS232\* Interface
- Form "C" dry alarm contacts
- Programmable alarm routing, logic unit and analog inputs
- 100 Mbps Ethernet interface with IPv4 & v6 support + built in web server + SNMP v1, v2c, v3.
- 1000-event alarm log
- Audible Alarm
- Remote configuration upgrade
- Micro SD card data logging
- Thermal protection for batteries & rectifiers
- Hot-swappable
- International standards compliance

## Standard Models

Model Number	Voltage	Input Feeds	Max. No. Breakers	Amps Each Feed	Total Amps
DPP1U-A1-B1	-48V / -24V	2	8 A Side & 8 B Side	150	300
DPP1U-A4-B4	+24V / +48V				
DPP1U-A5-B5	-12V				
DPP1U-A6-B6	+12V				
DPP1U-A1-B1-S	-48V / -24V	1	16	150	150
DPP1U-A4-B4-S	+24V / +48V				
DPP1U-A5-B5-S	-12V				
DPP1U-A6-B6-S	+12V				

### Notes:

1. Single feed units have the input buses internally connected together and the total amperage is limited to 150A.
2. All panels are shipped with 15 breaker position blanking plates.

## Breakers

Amps	Part Number	Amps	Part Number
1	348-1436-0000	20	348-1436-0050
2.5	348-1436-0010	25	348-1436-0060
5	348-1436-0020	30	348-1436-0070
10	348-1436-0030	BLANK	348-1418-0000
15	348-1436-0040		

Note: Breakers need to be ordered individually and are shipped with each panel as separate items for field installation.



## Safety Certification

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

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

## Input/Output

Ratings	150A Max. @ 40°C, each side A & B 125A Max. @ 50°C, each side A & B 50A Max. @ 70°C, each side A & B See manual for details on breaker deratings
Configuration	see model table for order codes
Breaker Capacity	1A to 30A (see breakers table for order codes)
Voltage	24V or 48V nominal (21 to 60Vdc) 12V nominal (10.5 to 15Vdc)
Polarity	see model table

## Alarms

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

## Safety

Input	UL60950-1 2nd Ed.; CSA22.2 No. 60950-1 2nd Ed.; EN60950-1 2nd Ed.
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## Environmental

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

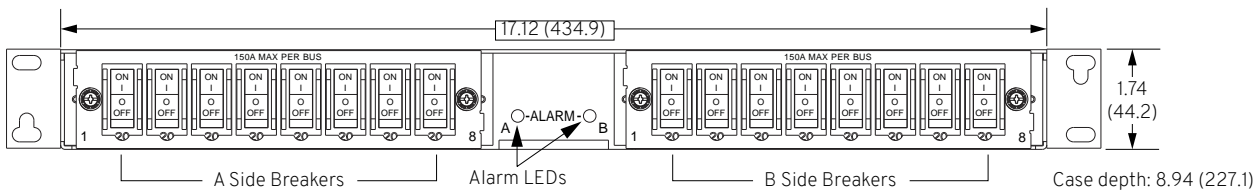
## Physical

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

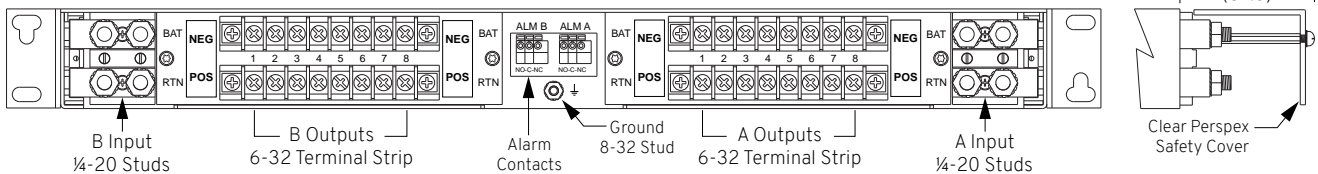
## Connections

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

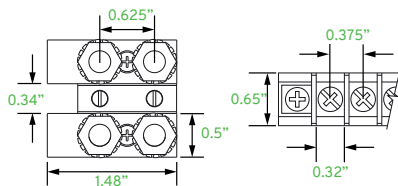
## FRONT VIEW



## REAR VIEW

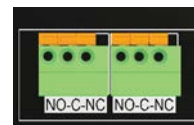


## BUS BAR / TERMINAL DETAIL



Crimp Lugs for input bus bars should be ordered separately.  
For a kit of 4 two-hole lugs for no. 6 AWG wire order pt. no. 775-1434-0000.

## ALARM CONNECTOR DETAIL



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

ALL DIMENSIONS IN INCHES (mm).

NOTE: Single feed models DPPIU-Ax-Bx-S have 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 internally to the live input feed and can be used for supplying additional panels. The total load must not exceed 150A on any one pair of bus bars in the chain.

## 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.

For more information, email [contact@greencubes.com](mailto:contact@greencubes.com) or visit [greencubes.com](http://greencubes.com)



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Data Sheet: dpp1u Rev:A