

DPPIU SERIES

DC DISTRIBUTION PANELS

16 Pluggable Breakers & Dual 150A Inputs

DESCRIPTION

UNIPOWER's DPPIU 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, can be separately configured for 12 or 24/48 volts and are polarity neutral. 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

- ◆ 48/24V and 12V or Dual Voltage
- ◆ POLARITY NEUTRAL
- ◆ 150A bus bar inputs
- ◆ Single or Dual Feed
- ◆ NO tools required to change breakers
- ◆ 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 2nd Edition
 CSA22.2, No. 60950-1 2nd Edition
 EN60950-1 2nd Edition

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NORTH AMERICA CALL: +1-954-346-2442 • EUROPE CALL: +44 1903 768200



STANDARD CONFIGURATIONS

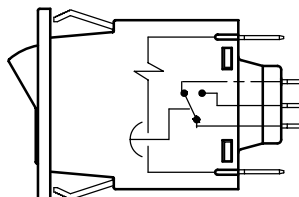
MODEL NUMBER	VOLTS EACH FEED	INPUT FEEDS	MAX. # BREAKERS	AMPS EACH FEED	TOTAL AMPS
DPPIU-A1	48/24	1	8	150	150
DPPIU-A6	12				
DPPIU-A1-B1-S	48/24	1	16	150	150
DPPIU-A6-B6-S	12				
DPPIU-A1-B1	48/24 - 48/24	2	8 + 8	150	300
DPPIU-A6-B6	12 - 12				
DPPIU-A1-B6	48/24 - 12				
DPPIU-A6-B1	12 - 48/24				

NOTE: Single feed models DPPIU-A1-B1-S and DPPIU-A6-B6-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 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.

BREAKER ORDERING GUIDE

AMPS	PART NUMBER
1	348-1436-0000
2.5	348-1436-0010
5	348-1436-0020
10	348-1436-0030
15	348-1436-0040
20	348-1436-0050
25	348-1436-0060
30	348-1436-0070
BLANK	348-1418-0000

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



SPECIFICATIONS

Typical at 25°C Unless Otherwise Noted.

INPUT/OUTPUT

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 CB deratings

Configuration.....150A Single Bus with 1 to 16 Breakers
 300 A Dual Bus 1 to 8 Breakers Each Bus

Breaker Capacity¹1A to 30A

Voltage¹

24/48V Version.....21-60VDC

12V Version.....10.5-15VDC

PolarityNeutral, Positive or Negative Ground

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).....1.74 H x 17.12 W x 8.94 D
 (44.2 x 434.9 x 227.1)

Weight.....10.30 lbs. (4.67 kg.)

Rack Mounting.....19 or 23 Inch

ALARMS

Alarm IndicatorDual Color LED Per Bus

LED Status Indication.....Green = Normal
 .Red = CB Trip Alarm
 Off = No Power

Alarm Relays.....Form C Contacts for each Bus

CONNECTIONS

Input Connections.....Crimp Type Lug or ¼ - 20 Stud

Output Connections.....Barrier Terminal Strips, No. 6-32

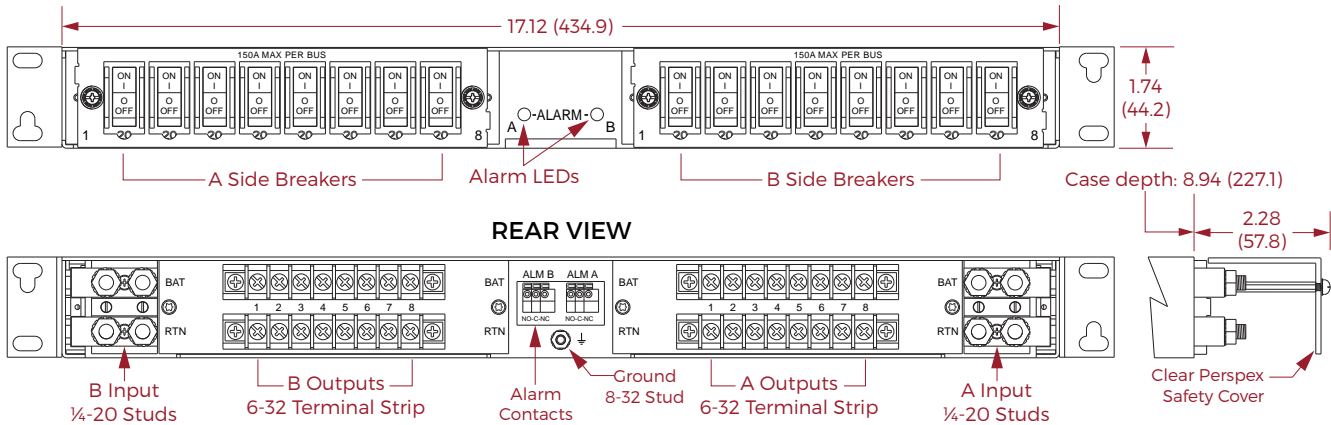
Chassis Ground Connection.....No. 8-32 Stud

Alarm Relay Connections.....Spring Clamp Terminals,16-26AWG

SAFETYUL60950-1 2nd Ed., CSA22.2 No. 60950-1 2nd Ed., EN60950-1 2nd Ed.

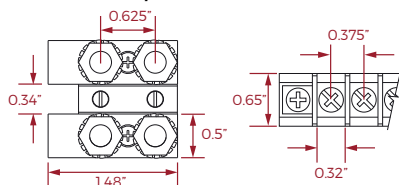
Notes:
 1. See ordering guide to specify.

FRONT VIEW



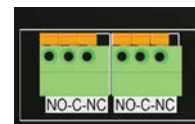
ALL DIMENSIONS IN INCHES (mm).

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.

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