

# **DPB1U SERIES**

# DC DISTRIBUTION PANELS 12 Breakers & Dual 150A Inputs

#### DESCRIPTION

UNIPOWER's DPB1U Series of circuit breaker panels provide distribution and overload protection for 1 to 12 circuits. The panels are only one mounting position (1.75 inches) high.

The panel provides 1 to 12 single-bus breakers or 2 to 12 dual-bus (A&B) breakers (1 to 6 per bus). The panels distribute up to a total of 300 amperes of load current from two separate 150-ampere sources with true A and B distribution and alarm capabilities.

A and B sections of the dual-bus panel are isolated and can be separately configured for 12, 24 or 48 volts and are polarity neutral. Breaker capacities are from 1 to 50 amperes.

Alarms is indicated by a dual color LED (green/red) for each bus and one Form C relay contact per bus.

A fail safe option lets the A and B sides operate redundantly from two separate feeds.

The panels come with brackets that permit mounting in either a 19- or 23-inch relay rack. They can be mounted from the front of the rack with offsets every quarter-inch front to back to align with existing rack-mounted equipment.

#### 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



# STANDARD MODESLS

E210994 LVD2006/95/EC

INPUT FEEDS	MAX.# BREAKERS	AMPS EACH BUS	TOTAL AMPS	MODEL NUMBER
]	6	150	150	DPB1U-Axy
	12	150	150	DPB1U-Axy-Bxy-S
2	6 Each Bus	150	300	DPB1U-Axy-Bxy

Note: 'x' denotes the operating voltage. 'y' denotes between one and six breakers which must be specified as part of the final model number.

See ordering guide on page 2 of this datasheet to specify a full model number.

# **FEATURES**

- ◆ One Mounting Position High: 1.75"
- ◆ 19- or 23-Inch Rack Mounting
- Magnetic Circuit Breakers
- ◆ Single Bus with 1 to 12 Breakers
- ◆ Dual Bus (A/B) with 1 to 6 Breakers per Bus
- ◆ Operating Voltage: 12, 24 or 48VDC
- ◆ POLARITY NEUTRAL
- ◆ A & B are Isolated Loads
- ◆ A & B Can Be Separately Configured
- ◆ 1A to 50A per Breaker
- ◆ Green/Red LED Alarm
- ◆ One Form C Relay Contact per Bus (A/B)
- ◆ Rack Offset Every ¼", Front to Back
- ◆ Fail Safe Option (special order)

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.-10°C to +70°C -40°C to + 85°C

.... No. 8-32 Stud

..Spring Clamp Terminals,16-26AWG

...0% to 95%, Non-Condensing



## **SPECIFICATIONS**

Typical at 25°C Unless Otherwise Noted.

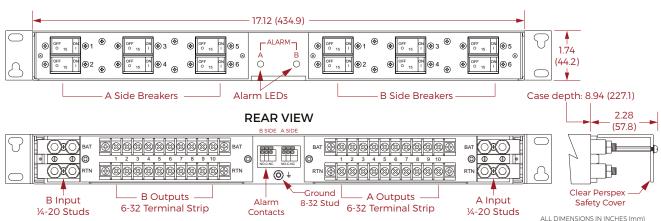
Configuration	See Panel Configuration Table	ENVIRONMENTAL Operating Temp. Range Storage Temp. Range
Single Bus	1 to 12 Breakers 1 to 6 Breakers Each	Humidity
Dual Bus	1 to 6 Breakers Each	
Breaker Capacity <sup>1</sup>	1A to 50A	PHYSICAL SPECIFICATIONS
Voltage <sup>2</sup>		Case Material
48V Nominal	42-60VDC	Finish
24V Nominal	21-30VDC	Dimensions <sup>3</sup> , Inches (mm)
12V Nominal	10.5-15VDC	
Polarity	POLARITY NEUTRAL	Weight
		Rack Mounting Width
ALARMS		· ·
Alarm Indicator	Dual-Color LED Per Bus	CONNECTIONS
LED Status Indication	Green = Normal	Input Connections
	Red = Alarm	Output Connections
	Off = No Power	1-30A
Alarm Connections	One Form C Relay Contact Per Bus	40A-50A
	,	Chassis Ground Connection
SAFETY STANDARDS	UL69950-1 2nd Ed.,CAS22.2 No.950-1 2nd Ed., EN60950-1 2nd Ed.	Alarm Relay Connections

.Steel .Powder Coat Black . 1.75 H x 19.00 W x 9.00 D (44.5 x 483 x 229) 10.30 lbs. (4.67 kg.) 19 or 23 Inches .....Crimp Type Lug or 1/4 - 20 Stud .......... Barrier Terminal Strips, No. 6-32 ......... Barrier Terminal Strips, No. 10-32

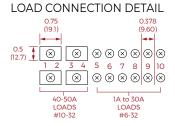
NOTES: 1. See table for available breaker sizes.

- 2. See Ordering Guide to specify voltage.
- 3. For unit with fail safe option the case depth is 10.44 inches (265mm).





## ORDERING GUIDE

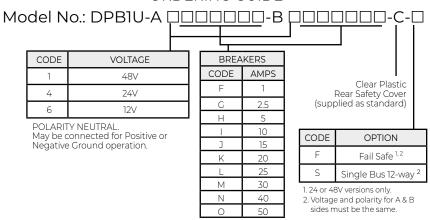


Recommended wire sizes: 30A or less - #10AWG. 40A or 50A - #8AWG.

### INPUT CONNECTION DETAIL

Each input bus bar uses 1/4-20 Studs with a 0.625" spacing.

Akit of 4two-hole lugsfor #6AWG wire is available. order code 775-1434-0000.



- Notes: 1. If section B is not used a blank panel is installed at the factory and the "-B" in the model number is not required.
  - The sum of all fuse currents on either side must not exceed 150 Amperes.
  - 3. When the 'S' option is specified each side of the panel is limited to 75A.
  - 4. Failsafe (option F) is to special order only and uses a chassis 10.44" depth. Call sales to discuss your requirements.

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