

DPG1U SERIES

DC DISTRIBUTION PANELS

20 GMT Fuses & Dual 80A Inputs

DESCRIPTION

UNIPOWER's DPG1U Series of GMT fuse distribution panels provide distribution and overload protection for 10 or 20 circuits. The one mounting position (1.75 inches) high GMT fuse panels provide 10 or 20 single-bus fuses or 20 dual-bus (A&B) fuses (10 per bus).

These panels distribute up to a total of 160 amperes of load current from two separate 80-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. Fuse sizes are ½ to 12 amperes.

Alarms are 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 from front to back to align with existing rack-mounted equipment.

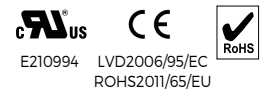
THREE YEAR WARRANTY

SAFETY CERTIFICATIONS

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

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STANDARD MODELS

INPUT FEEDS	MAX. # FUSES	AMPS EACH BUS	TOTAL AMPS	MODEL NUMBER
1	10	80	80	DPG1U-Ax
	20	80	80	DPG1U-Ax-Bx-S
2	10 Each Bus	80	160	DPG1U-Ax-Bx

Note: 'x' denotes the operating voltage.
 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
- ◆ GMT Fuses
- ◆ Single Bus with 10 or 20 Fuses
- ◆ Dual Bus (A/B) with 10 Fuses per Bus
- ◆ Bus Capacity: Up to 80A per Bus
- ◆ Operating Voltage: 12, 24 or 48VDC
- ◆ POLARITY NEUTRAL
- ◆ A & B are Isolated Loads
- ◆ A & B Can Be Separately Configured
- ◆ ½A to 12A Fuses
- ◆ 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)

SPECIFICATIONS

Typical at 25°C Unless Otherwise Noted.

INPUT / OUTPUT

Panel Capacity..... See Panel Configuration Table
 Configuration
 Single Bus..... 1 to 20 Fuses
 Dual Bus..... 1 to 10 Fuses Each
 Fuse Capacity¹..... ½A to 12A
 Voltage²
 48V Nominal..... 42-60VDC
 24V Nominal..... 21-30VDC
 12V Nominal..... 10.5-15VDC
 Polarity..... POLARITY NEUTRAL

ALARMS

Alarm Indicator..... Dual-Color LED Per Bus
 LED Status Indication..... Green = Normal
 Red = Alarm
 Off = No Power
 Alarm Connections..... One Form C Relay Contact Per Bus

SAFETY STANDARDS..... UL60950-1 2nd Ed., CAS22.2 No.950-1 2nd Ed., EN60950-1 2nd Ed.

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

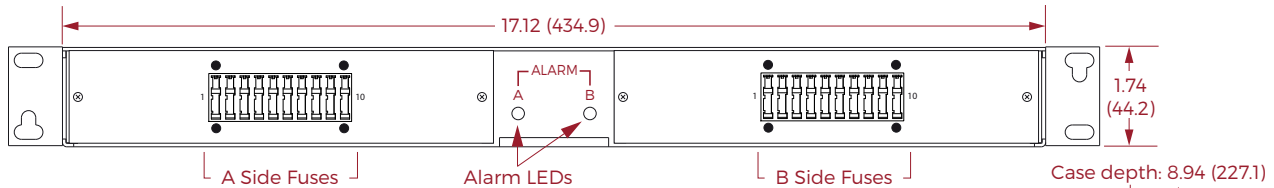
Case Material..... Steel
 Finish..... Powder Coat Black
 Dimensions³, Inches (mm)..... 1.75 H x 19.00 W x 9.00 D
 (44.5 x 483 x 229)
 Weight..... 10.30 lbs. (4.67 kg.)
 Rack Mounting Width..... 19 or 23 Inches

CONNECTIONS

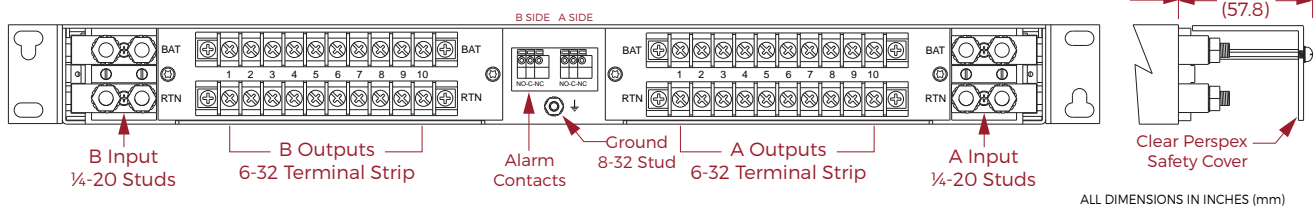
Input Connections..... Crimp Type Lug or ¼ - 20 Stud
 Output Connections..... Barrier Terminal Strips, No. 6-32
 Chassis Ground Connection..... No. 8-32 Stud
 Alarm Relay Connections..... Spring Clamp Terminals, 16-26AWG

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).

FRONT VIEW



REAR VIEW



ALL DIMENSIONS IN INCHES (mm)

CONNECTION DETAIL

Each input bus bar uses ¼-20 Studs with a 0.625" spacing.
 A kit of 4 two-hole lugs for #6 AWG wire is available, order code 775-1434-0000.

The recommended wire size for output connections is #10AWG.

ORDERING GUIDE

Model: DPGIU-A□-B□-C-□

GMT FUSES		
AMPS	PART NUMBER	COLOR
½	401-1500-0010	Red
¾	401-1500-0020	Brown
1	401-1500-0030	Gray
1⅓	401-1500-0040	White
2	401-1500-0050	Orange
3	401-1500-0060	Blue
5	401-1500-0070	Green
10	401-1500-0080	Red/White
12	401-1500-0090	Green/Yellow
DUMMY	401-1500-0100	

Order fuses separately.
 UNIPOWER recommends Bussman fuses for this panel.
 They may be ordered from UNIPOWER using the part numbers shown.

CODE	VOLTAGE
1	48V
4	24V
6	12V

POLARITY NEUTRAL.
 May be connected for Positive or Negative Ground operation.

CODE	OPTION
F	Fail Safe ^{1,2}
S	Single Bus 20-way ²

1. 24 or 48V versions only.
 2. Voltage and polarity for A & B sides must be the same.

Clear Plastic Rear Safety Cover (supplied as standard)

- Notes:**
- 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 80 Amperes.
 - When the 'S' option is specified each side of the panel is limited to 75A.
 - 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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