

## DPU1U SERIES

### UNIFLEX® COMBINATION PANELS

Breakers | Fuses | LVD

#### DESCRIPTION

UNIPOWER's UNIFLEX® distribution panels provide the ultimate flexibility in combining fuses, circuit breakers and/or an LVD in a dual (A/B) panel. A GMT section provides 10 fuses and a circuit breaker section, 1-6 breakers.

A low-voltage disconnect section is configured at the factory for either battery or load disconnect and can have an optional bypass switch. A battery circuit breaker is standard.

Each A and B section has an LED alarm indicator and Form C relay contacts.

The A and B Sections are isolated and can be configured independently at the factory for 12, 24 or 48 VDC, positive or negative ground.

The panels are only one mounting position (1.75 inches) high and 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

UL1950  
CSA22.2, No. 950-95

[www.unipowerco.com](http://www.unipowerco.com)

North America & CALA: +1 954-346-2442 • EMEA: +1 561-990-3830 • [sales@unipowerco.com](mailto:sales@unipowerco.com)



E210994



LVD2006/95/EC  
ROHS2011/65/EU



#### AVAILABLE CONFIGURATIONS

BASE MODEL	SIDE	TOTAL AMPS	TYPE
DPU1U	A	80 150	10 x GMT Fuses 1-6 x Breakers
	B	80 150 70	10 x GMT Fuses 1-6 x Breakers 1 x LVD

**Note:** Each side of the panel can be configured for only one of the available 'types' as shown. To specify a complete model number see the configuration guide on the following page.

#### FEATURES

- ◆ One Mounting Position High: 1.75"
- ◆ 19- or 23-Inch Rack Mounting
- ◆ Dual Section (A/B)
- ◆ Current Capacity per Section: 60A to 150A
- ◆ Operating Voltage: 12, 24 or 48VDC
- ◆ Positive or Negative Ground
- ◆ A & B are Isolated Loads
- ◆ LED Alarm Indicators
- ◆ Form C Relay Contacts, Each Side
- ◆ Combination of GMT Fuses, Breakers, LVD
- ◆ 1A to 50A Circuit Breakers
- ◆ LVD has Battery Circuit Breaker
- ◆ LVD in Series with Battery or Load
- ◆ Rack Offset Every ¼" from Front to Back

## SPECIFICATIONS

Typical at 25°C Unless Otherwise Noted.

### INPUT / OUTPUT

Fuse & Breaker Capacity.....	80A or 150A Per Bus
LVD Capacity.....	70A
Fuse Configuration.....	10 GMT Fuses
Breaker Configurations.....	1 to 6 Breakers
Voltage	
48V Nominal.....	42-60VDC
24V Nominal.....	21-30VDC
12V Nominal.....	10.5-15VDC
Polarity.....	Positive or Negative Ground

### ALARMS

Alarm Indicator.....	LED on Each Side
LED Status	
Fuse & Breaker Sections.....	Green = Normal
LVD Section.....	Red = Alarm, Off = No Power
Off = Normal	

### Alarm Connections

Fuse & Breaker.....	Two Form C Relay Contacts Per Bus
LVD.....	Form C Relay Contacts for Disconnect or Battery Breaker

SAFETY STANDARDS.....	UL1950, CSA22.2 No.950, EN60-950
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### ENVIRONMENTAL

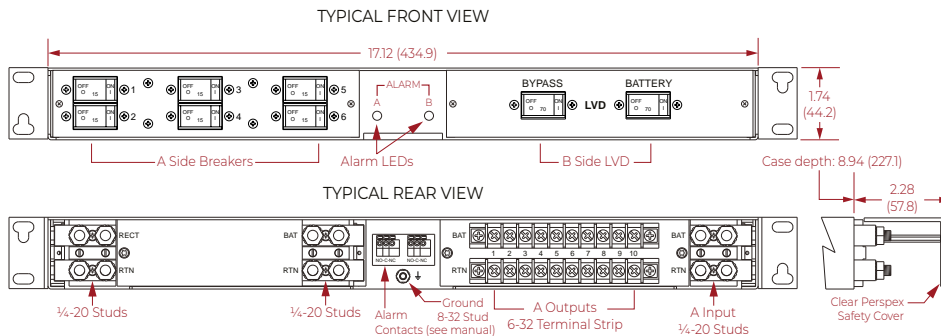
Operating Temp. Range.....	-10°C to +70°C
Storage Temp. Range.....	-40°C to + 85°C
Humidity.....	0% to 95%, Non-Condensing

### PHYSICAL SPECIFICATIONS

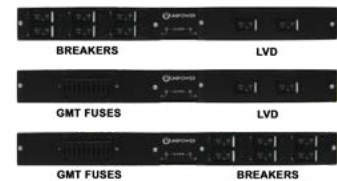
Case Material.....	Steel
Finish.....	Powder Coat Gray
Dimensions, Inches (mm).....	1.75 H x 19.00 W x 9.00 D
	(44.5 x 483 x 229)
Weight.....	8.76 - 9.73 lbs. (3.97 - 4.41 kg.)
Rack Mounting Width.....	19 or 23 Inches

### CONNECTIONS

Input Connections.....	Crimp Type Lugs or ¼ - 20 Studs
Output Connections	
Fuse or Breaker.....	Barrier Terminal Strips
LVD.....	Crimp Type Lugs or ¼ - 20 Studs
Battery Connection, LVD.....	Crimp Type Lugs or ¼ - 20 Studs
Chassis Ground Connection.....	No. 8-32 Stud
Alarm Connections.....	0.045" sq. Wirewrap Pins



### AVAILABLE CONFIGURATIONS



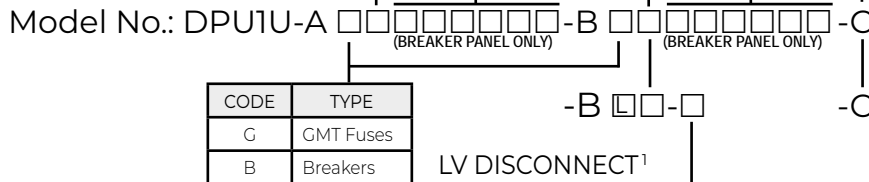
ALL DIMENSIONS IN INCHES (mm)

## ORDERING GUIDE

CODE	VOLTAGE (POLARITY)
1	-48V (+Ve Ground)
2	+48V (-Ve Ground)
3	-24V (+Ve Ground)
4	+24V (-Ve Ground)
5	-12V (+Ve Ground)
6	+12V (-Ve Ground)

BREAKERS <sup>3</sup>			
CODE	AMPS	CODE	AMPS
F	1	K	20
G	2.5	L	25
H	5	M	30
I	10	N	40
J	15	O	50

Clear Plastic Rear Safety Cover (supplied as standard)



- Notes:
- As shown, only side B can have a low-voltage disconnect, specified by "L".
  - A bypass switch must also be designated YES or NO.
  - For a breaker panel, each breaker must be specified with highest current in position 1 down to lowest current in position 6.

## INSTRUCTIONS

For each section (A or B) determine the type and voltage and polarity. Use codes from the tables. If a breaker section is specified, insert breaker currents into each box (from 1 to 6 breakers). The B section is specified in the same way as the A section. An LVD can only be specified for the B section. For panels that are not UNIFLEX® (combination), i.e., both A and B are identical, order models **DPG1U**, **DPB1U** or **LVD1U**. Also for full specifications on fuses, breaker or LVD sections, refer to data sheets for these products.

To order GMT fuses see **DPG1U** datasheet.

Crimp type lugs for the input and battery connections should be ordered separately. For a kit of 4 two-hole lugs for #6 AWG wire, order code **775-1434-0000**.

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North America & CALA: +1 954-346-2442 • EMEA: +1 561-990-3830 • sales@unipowerco.com