

## PDF

### TPL FUSE PRIMARY DISTRIBUTION BAY

#### FEATURES

- 4000A maximum distribution ampacity
- 400-800A & 900-1200A fuse holder options
- Minimum factory built 4 fuse positions. Field upgradable to 16 positions by adding 2 holder panels
- Maximum factory configuration 20 fuse positions
- Bar graph indication of individual fuse current
- Direct bus bar kits for Comm/Net and many 3rd part power plants
- Internal & external return options
- 23" Rack Standard, 19" special order

#### OVERVIEW

The PDF is a primary distribution bay allowing for up to 20, factory configured, or 16, field configured TPL fuse positions rated at 400-1200A. Tiered internal terminations allow for easy landing and lacing of cables inside the cabinet.

#### SPECIFICATIONS

##### Mechanical:

- **Dimensions:** 26" wide x 84" tall x 30" deep

##### Electrical:

- **Input:** -48VDC Positive Earth configuration
- **Maximum Load:** 4000A



## ORDERING INFORMATION

TABLE 1. MODEL CONFIGURATIONS

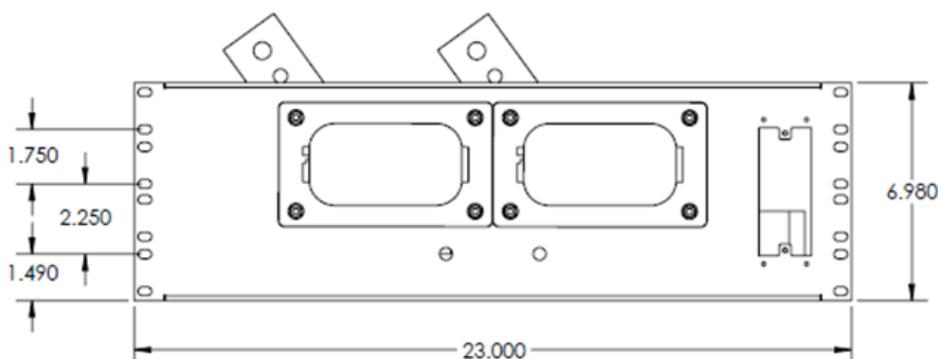
PART NUMBER	DESCRIPTION
016-1024-10	23" 4KA PDF Frame; Rack Assembly; Side; Rear; and Top Cover. w/ Ground Bar; Without Internal Returns; No Panels Installed
016-2150-10	23" 4KA PDF Frame; Rack Assembly; 2 x 2 Position 800A Panels Installed; Side; Rear; and Top Cover. w/ Ground Bar; Without Internal Returns
	23" 4KA PDF Frame; Rack Assembly; 10 x 2 Position 800A Panels Installed; Side; Rear; and Top Cover. w/ Ground Bar; Without Internal Returns
016-1025-10	19" 4KA PDF Frame; Rack Assembly; Side; Rear; and Top Cover. w/ Ground Bar; Without Internal Returns; No Panels Installed.

TABLE 2. TPL PANEL CONFIGURATIONS

PART NUMBER	DESCRIPTION
016-1034-10	TPL 23"; (2) 800 Amps Rated Fuse Holders; BCM; Series 2 Type Distribution
016-1032-10	TPL 23"; (2) 1200 Amps Rated Fuse Holders; BCM; Series 2 Type Distribution
016-1030-10	TPL 19"; (2) 800 Amps Rated Fuse Holders; BCM
016-1028-10	TPL 19"; (2) 1200 Amps Rated Fuse Holders; BCM

TABLE 3. FUSE PART NUMBERS

PART NUMBER	DESCRIPTION
460-021-10	Fuse; TPL; 400A; DC-170V; 1.5" x 3.5"
460-023-10	Fuse; TPL; 600A; DC-170V; 1.5" x 3.5"
460-056-10	Fuse; TPL; 800A; DC-170V; 1.5" x 3.5"
460-095-10	Fuse; TPL; 900A; DC-170V; 2" x 4.06"
460-096-10	Fuse; TPL; 1000A; DC-170V; 2" x 4.06"
460-058-10	Fuse; TPL; 1200A; DC-170V; 2" x 4.06"



### About Comm/net Systems

Comm/net Systems, Inc. (CSI) is the leader in high power density communications power systems. Comm/net offers comprehensive power and communications site systems integration and deployment services via a national footprint of regional branch offices. Additional information can be found at [www.commnetsystems.com](http://www.commnetsystems.com).

**COMM/net systems**  
Advanced Power & Integration Services

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### 24/7 Sales & Service

To purchase Comm/net Systems solutions, contact your Comm/net Systems representative at: (800) 274-0544 or e-mail: [sales@commnetsystems.com](mailto:sales@commnetsystems.com)

### Order Information

Shipping box is packaged for UPS or FedEx shipment and includes an instruction manual and accessories.



## Sidecar PDF

### SMALL FOOTPRINT PRIMARY DISTRIBUTION

#### FEATURES

- 1800A, 2900A, and 4000A Maximum Distribution Ampacity Options available
- TPL Fuses Positions or Large Frame Circuit Breaker Output Circuit Protection
- Small 12 in x 25 in Footprint
- Direct Bus Connection to Power Plant or Standalone Cable Options for Input
- Mounts to side of Comm/net Power Plant Systems
- Available in Left and Right Mount Options
- External Return
- Alarm Connections for Fuse Fail/Breaker Trip
- Up to (8) TPL Fuse Positions
  - 800A or 1200A max TPL fuse holders available
- Up to (24) Single-Pole GJ Breaker Positions, with support for Multiple Breakers
- Up to (6) 3-or-4 Pole GJ Circuit Breaker Positions

#### Overview

The Sidecar PDF is a small footprint side-mounted PDF system for adding additional primary distribution to Comm/net power plants. Bus connections allow for easy connection to existing Comm/net power plants without any additional cabling. Tiered internal terminations allow for easy landing and lacing of cables inside the cabinet. The system is available in left and right mount, with GJ Breaker and TPL fuses for over current protection. It is also available in an optional standalone configuration featuring a top feed solution.

## DATASHEET

### MECHANICAL SPECIFICATIONS

- **Dimensions:** 12 in wide x 84 in high x 25 in deep

### ELECTRICAL SPECIFICATIONS

- **Input:** -48VDC Positive Earth configuration
- **Maximum Load:** 1800A/2900A/4000A depending on ordered configurations

TABLE 1. MODEL CONFIGURATIONS

Part Number	Description
016-1771-10	Sidecar PDF; Left Mount; 4000A; (8) 1200A TPL Fuse Sockets
016-1772-10	Sidecar PDF; Right Mount; 4000A; (8) 1200A TPL Fuse Sockets
016-1773-10	Sidecar PDF; Left Mount; 4000A; (8) 800A TPL Fuse Sockets
016-1774-10	Sidecar PDF; Right Mount; 4000A; (8) 800A TPL Fuse Sockets
016-1775-10	Sidecar PDF; Left Mount; 4000A; (4) 1200A TPL Fuse Sockets; (4) 800A Fuse Sockets
016-1776-10	Sidecar PDF; Right Mount; 4000A; (4) 1200A TPL Fuse Sockets; (4) 800A Fuse Sockets
016-1777-10	Sidecar PDF; Left Mount; 4000A; (12) 300A GJ Breakers
016-1778-10	Sidecar PDF; Right Mount; 4000A; (12) 300A GJ Breakers
016-1779-10	Sidecar PDF; Left Mount; 4000A; (6) 600A GJ Breakers
016-1780-10	Sidecar PDF; Right Mount; 4000A; (6) 600A GJ Breakers
016-1781-10	Sidecar PDF; Standalone; 4000A; (4) 1200A TPL Fuse Sockets; (4) 800A Fuse Sockets, Sockets Right
016-1782-10	Sidecar PDF; Standalone; 4000A; (4) 1200A TPL Fuse Sockets; (4) 800A Fuse Sockets, Sockets Left

TABLE 2. EXTERNAL RETURN BUS

Part Number	Description
016-1787-10	External Return Bus; Sidecar PDF; 1800A
016-1788-10	External Return Bus; Sidecar PDF; 2900A
016-1789-10	External Return Bus; Sidecar PDF; 4000A

TABLE 3. TERMINATION KITS

Part Number	Description
016-1770-10	Bus Kit; Top Feed; Sidecar PDF
016-1790-10	Interbay Bus Kit; Right Sidecar PDF to 19" Rectifier Bay; 1800A
016-1791-10	Interbay Bus Kit; Left Sidecar PDF to 19" Rectifier Bay; 1800A
016-1792-10	Interbay Bus Kit; Right Sidecar PDF to 19" Rectifier Bay; 2900A
016-1793-10	Interbay Bus Kit; Left Sidecar PDF to 19" Rectifier Bay; 2900A
016-1794-10	Interbay Bus Kit; Right Sidecar PDF to 23" Rectifier Bay; 1800A
016-1795-10	Interbay Bus Kit; Left Sidecar PDF to 23" Rectifier Bay; 1800A
016-1796-10	Interbay Bus Kit; Right Sidecar PDF to 23" Rectifier Bay; 2900A
016-1797-10	Interbay Bus Kit; Left Sidecar PDF to 23" Rectifier Bay; 2900A
016-1798-10	Interbay Bus Kit; Right Sidecar PDF to 23" Rectifier Bay; 4000A
016-1799-10	Interbay Bus Kit; Left Sidecar PDF to 23" Rectifier Bay; 4000A
016-1810-10	Interbay Bus Kit; Right Sidecar PDF to (2) 19" Rectifier Bays; 4000A
016-1811-10	Interbay Bus Kit; Left Sidecar PDF to (2) 19" Rectifier Bays; 4000A
016-1812-10	Interbay Bus Kit; Right Sidecar PDF to (3) 19" Rectifier Bays w/Bus Duct; 4000A
016-1813-10	Interbay Bus Kit; Left Sidecar PDF to (3) 19" Rectifier Bays w/Bus Duct; 4000A
016-1814-10	Interbay Bus Kit; Right Sidecar PDF to (2) 23" Rectifier Bays; 4000A

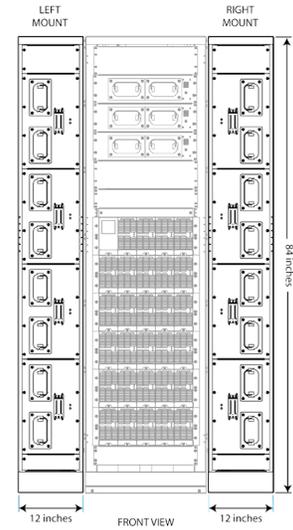


Figure 1. TPL Sidecar PDF Configuration

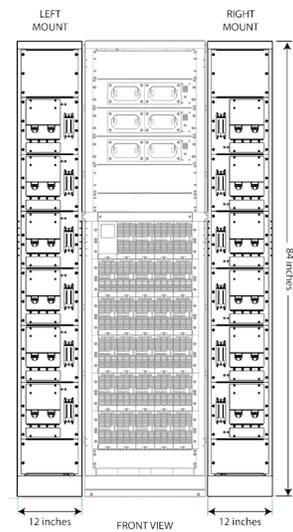


Figure 2. GJ Sidecar PDF Configuration

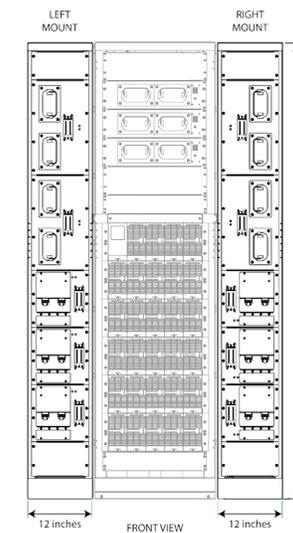


Figure 3. Hybrid Sidecar PDF Configuration (TPL + GJ combination)



## How to Order

The following questions should be answered in order to assist in selecting the correct desired configuration.

**1. DO YOU WANT THE PDF TO BE ON THE LEFT OR RIGHT SIDE OF THE POWER PLANT?**

Left or right as viewed from the front of the DC plant.

**2. WHAT IS THE MAXIMUM LOAD YOU WANT TO SUPPORT WITH THE PDF?**

There are three options: 1800A, 2900A, or 4000A.

**3. WHAT SIZE RACK IS THE POWER PLANT?**

19 inch or 23 inch?

**4. HOW MANY RECTIFIER BAYS DO YOU HAVE?**

Single or multi-bay?

### Required Accessory Selection Table

- Based on your answer to Question 1, select either left or right mount from the left column of the table.
- Based on your answer to Question 2, select the ampacity from the top row of the table.
- Based on your answer to Questions 3 and 4, select the size and number of bays in the right hand column of the table.

The cell where those three values intersect will show you the two required accessory part numbers to install you Sidecar PDF. The first part number is an external return kit, and the second part number is a termination kit.

**TABLE 4. ACCESSORY SELECTION (EXTERNAL RETURN BUS + TERMINATION KIT)**

	1800A Max Distribution	2900A Max Distribution	4000A Max Distribution	
Left Mount	016-1787-10 and 016-1791-10	016-1788-10 and 016-1793-10	N/A	19 in. Single Bay
	016-1787-10 and 016-1795-10	016-1788-10 and 016-1797-10	016-1789-10 and 016-1799-10	23 in. Single Bay
Right Mount	016-1787-10 and 016-1790-10	016-1788-10 and 016-1792-10	N/A	19 in. Single Bay
	016-1787-10 and 016-1794-10	016-1788-10 and 016-1796-10	016-1789-10 and 016-1798-10	23 in. Single Bay

Continue to Page 4 for more information regarding distribution selection.

## ORDERING GUIDE

### 5. WHAT DISTRIBUTION DO YOU WANT IN THE PDF?

There are several options:

#### TPL Fuses are 800A max or 1200A max

- Up to (8) TPL Fuses can be added
- Ampacity can be mixed (for example, the bay can be populated with (4) 800A Max fuse holders and (4) 1200A Max fuse holders)
- Blanking plates can also be installed if less than 8 fuse holders are desired

#### GJ Breakers

- Up to (12) 1-or-2 Pole GJ Breakers
- Up to (6) 3-or-4 Pole GJ Circuit Breakers
- Any mix of those two types
- Customer selects ampacity of the breakers
- Blanking plates can be installed as well if a fully populated bay is not desired

#### Mixed GJ and TPL Options

- A mix of distribution options can be installed in the PDF
- If mixing TPL and GJX Panels, all TPL panels must be installed in the top of the rack, and GJ breakers must be installed in the bottom of the rack
- Blanking plates can be installed if less than full population of breakers or fuses

## PDF Selection Table

The cell where the desired fuse/breaker configuration values intersect will show you the distribution part number that you need.

TABLE 5. DISTRIBUTION SELECTION

	1800A Max Distribution	2900A Max Distribution	4000A Max Distribution	
(8) TPL 800A			016-1773-10	Left Mount
			016-1774-10	Right Mount
				Standalone; Sockets Left Standalone; Sockets Right
(8) TPL 1200A			016-1771-10	Left Mount
			016-1772-10	Right Mount
				Standalone; Sockets Left Standalone; Sockets Right
(4) TPL 800A and (4) TPL 1200A			016-1775-10	Left Mount
			016-1776-10	Right Mount
			016-1782-10	Standalone; Sockets Left
			016-1781-10	Standalone; Sockets Right
(12) GJ 1-or-2 Pole Breakers			016-1777-10	Left Mount
			016-1778-10	Right Mount
				Standalone; Sockets Left Standalone; Sockets Right
(6) GJ 4 Pole Breakers			016-1779-10	Left Mount
			016-1780-10	Right Mount
				Standalone; Sockets Left Standalone; Sockets Right

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Shipping box is packaged for UPS or FedEx shipment and includes an instruction manual and accessories.

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