PlexPower™ IEC Fiber Panelboard
Factory Sealed. Panelboard with Fiber Patch Panel

ATEX/IECEx: Zones 1 and 2 – 21 and 22

Applications
- The PlexPower™ IEC Fiber Panelboard provides indoor and outdoor protection and control of electrical circuits in hazardous environments such as:
  — Petroleum plants
  — Chemical plants
  — Refineries
  — Wastewater Treatment Plants
  — Paper and Pulp Industries
  — Other process facilities
- Ideal for placement in wet, corrosive environments or where flammable gases or vapors are likely to be present.
- Suitable for use on applications where both power and communication wiring is required.

Features
- No external conduit or cable seals required thus making installations faster, easier, and less costly.
- The PlexPower Fiber Panelboard features a ground-breaking design that uses individual breaker housings to minimize the downtime and costs associated with servicing circuit breakers in hazardous locations.
- PlexPower breakers accommodate off-the-shelf Schneider■ breakers, making replacements readily available.
- The lighter weight panelboard enclosure can be quickly opened in the field for easier servicing.
- Standard models offer 8, 16 and 24 circuit panelboard configurations.
- Supplied as standard:
  — Bottom entries with brass earth plate
  — Pre-drilled supplied with non Ex certified temporary plastic plugs
  — Standard hard wired, copper cables
  — Color coded wiring for phases; neutral (blue) and ground (yellow/green)
  — Internal actuators with waterproof windows
  — Internal wiring duct
  — Ground bars
  — External/internal ground lug
  — Phenolic nameplate (specify legend)
- Standard configuration includes internal actuators.
- Breaker modules supplied with captive steel bolts.
- Branch circuits available in single pole.
  — 1-pole: 120, 240 Volts, 20 Amps maximum.
- Utilizes Belden* MIPP™ module and Telegartner STX module.
- Panelboard designed for -40 °C to +50 °C (-40 °F to +122 °F) with Telegartner STX module and, -20 °C to +50 °C (-4 °F to +122 °F) with Belden* MIPP™ module.

Standard Materials
- Enclosure: fiberglass reinforced polyester (FRP) or stainless steel
- Hardware: stainless steel
- Chassis: hot dip galvanized sheet steel for wall mounting use

ATEX/IECEx Certifications and Compliances
- Certification Type: PFPP
  — Gas, Zones 1 and 2:
    – Conforming to ATEX 2014/34/EU: ⟨Ex⟩ II 2G
    – Equipment Protection Level: EPL Gb
    – Type of Protection:Ex db eb op pr IIB+H$_2$/IIC
    – Temperature Class: T6 to T4 for Ta = +50 °C (+122 °F)

Fiber Panelboard

Bus Bar Panel with Main Breaker — Internal View

  — Dusts, Zones 21 and 22:
    – Conforming to ATEX: ⟨Ex⟩ II 2D
    – Equipment Protection Level: EPL Db
    – Type of Protection: Ex op pr tb IIIC
    – Surface Temperature: +57 °C to +62 °C for Ta = +50 °C (+135 °F to +144 °F for Ta = +122 °F)
  — Ambient Temperatures: standard model -25°C to +50°C
- ATEX Certificate: EPS 19 ATEX 1 114
- EC Declaration of Conformity: 50304
- IECEx Certificate: IECEx EPS 19.0054X
- Index of Protection according EN/IEC 60529: IP66
- Impact Resistance: IK10

Related Products
- Recommended for use with the Appleton TC Cable Connector.
- PlexPower™ Factory Sealed Increased Safety Panelboards

Illustrated Features

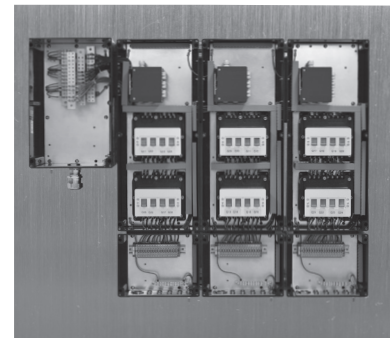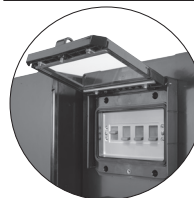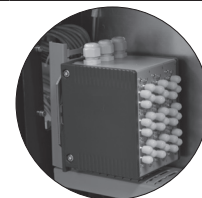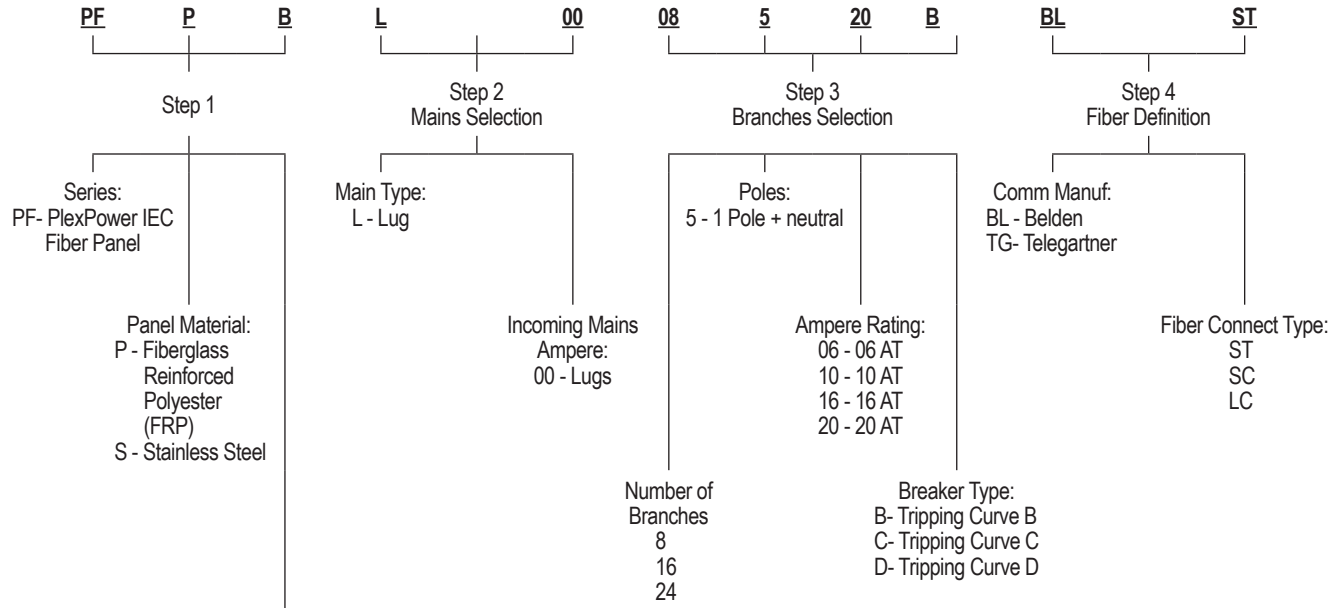Weatherproof Window

Fiber Patch Panel

■ *Schneider is a registered trademark of Schneider Electric.*
◄ *Cutler-Hammer is a registered trademark of Eaton Corporation.*
★ *Belden is a registered trademark Belden Inc.*

APPLETON™ **EMERSON™**

Distribution Equipment

PlexPower™ IEC Fiber Panelboard
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ATEX/IECEx: Zones 1 and 2 – 21 and 22

Catalog Numbering Guide

| PF | P | B | L | 00 | 08 | 5 | 20 | B | BL | ST |

Step 1

Step 2
Mains Selection

Step 3
Branches Selection

Step 4
Fiber Definition

Series:
PF- PlexPower IEC
Fiber Panel

Main Type:
L - Lug

Poles:
5 - 1 Pole + neutral

Comm Manuf:
BL - Belden
TG- Telegartner

Panel Material:
P - Fiberglass
Reinforced
Polyester
(FRP)
S - Stainless Steel

Incoming Mains
Ampere:
00 - Lugs

Ampere Rating:
06 - 06 AT
10 - 10 AT
16 - 16 AT
20 - 20 AT

Fiber Connect Type:
ST
SC
LC

Number of
Branches
8
16
24

Breaker Type:
B- Tripping Curve B
C- Tripping Curve C
D- Tripping Curve D

Panel Size: Select B, E, F enclosure based on number of circuits

	B	E	F
Max. Circuits	8	16	24

Fiberglass Reinforced Polyester (FRP)

Abbreviated Standard Catalog Numbers	Description
PFP08520CBLST	Eight (8) (1P+N) 20A breakers with Belden patch panel
PFP16520CBLST	Sixteen (16) (1P+N) 20A breakers with Belden patch panel
PFP24520CBLST	Twenty-four (24) (1P+N) 20A breakers with Belden patch panel

Stainless Steel

Abbreviated Standard Catalog Numbers	Description
PFS08520CBLST	Eight (8) (1P+N) 20A breakers with Belden patch panel
PFS16520CBLST	Sixteen (16) (1P+N) 20A breakers with Belden patch panel
PFS24520CBLST	Twenty-four (24) (1P+N) 20A breakers with Belden patch panel

Distribution Equipment
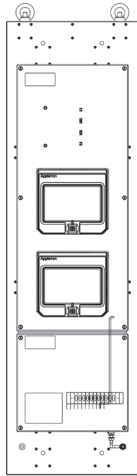
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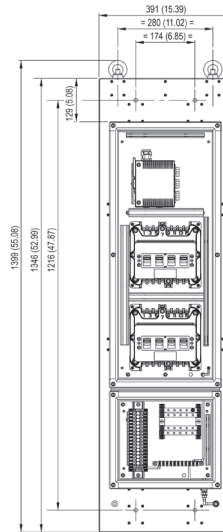
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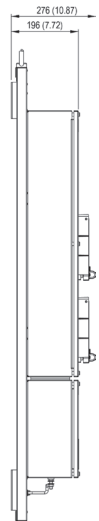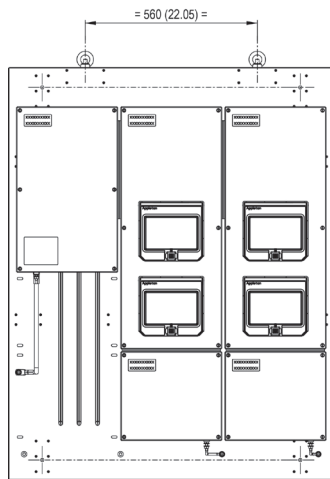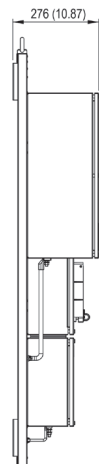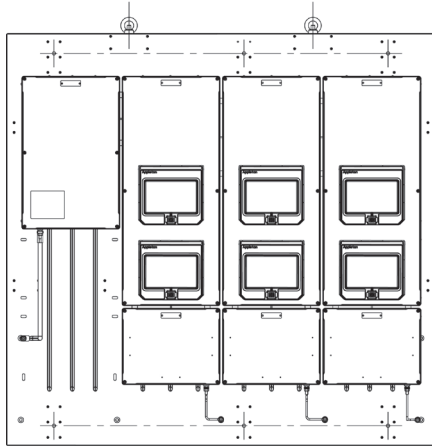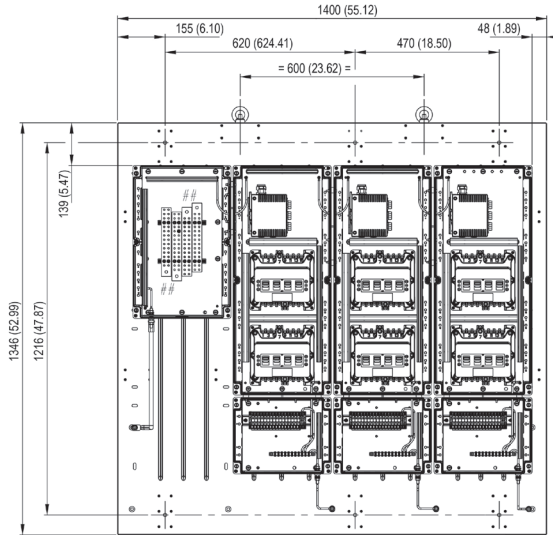**Dimensions in Millimeters (Inches)**

8 Circuit

Front View	Internal View	Side View

16 Circuit

Front View	Internal View	Side View
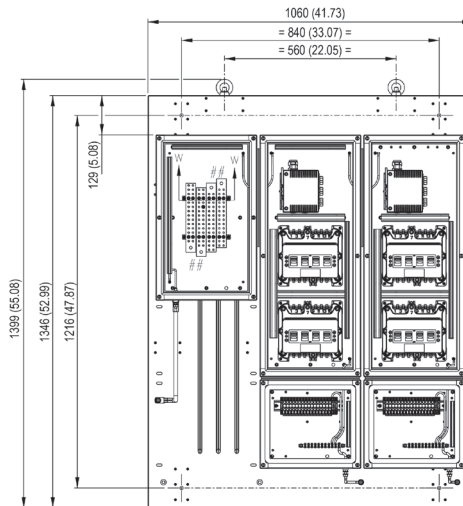
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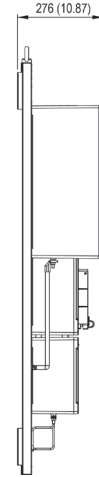
Dimensions in Millimeters (Inches)

24 Circuit

Front View

Internal View

Side View

Panel Size — Dimensions in Millimeters (Inches)

	B 8 Circuit	E 16 Circuit	24 Circuit
Fiberglass Reinforced Polyester (FRP)			
Length	1399 (55.1)	1399 (55.1)	1399 (55.1)
Width	391(15.4)	1060 (41.8)	1400 (55.1)
Depth	247 (9.8)	276 (10.9)	276 (10.9)
Stainless Steel			
Length	1399 (55.1)	1399 (55.1)	1399 (55.1)
Width	391(15.4)	1060 (41.8)	1400 (55.1)
Depth	247 (9.8)	276 (10.9)	276 (10.9)

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