

A photograph of an industrial control panel, likely an Appleton PlexPower Lighting and Power Panelboard. The panel is white and features a central column of green toggle switches, a row of smaller switches on the left, and a circular indicator light with a red and black knob at the bottom. The panel is mounted on a metal rack with various cables and components visible. A blue banner is overlaid on the top left of the image.

**Engineered to protect and  
control equipment throughout  
your facility**

**Appleton™ PlexPower™ Lighting  
and Power Panelboards**  
Product Guide





## Easy To Install, Operate and Maintain.

The Appleton™ PlexPower™ Panelboards by Emerson™ use circuit breaker modules that provide explosionproof protection for standard off-the-shelf breakers – eliminating the need for a heavy cast enclosure.

Component level protection means the panelboard enclosure is lighter, more compact and easier to install. Breakers can be easily replaced, upgraded or added in the field with no bolted cover to remove, no need for sealing or rewiring and no danger of compromising flamepath integrity. A true MCCB mains breaker eliminates the need for a disconnect and fuse replacements.

There's never been a simpler, more versatile way to protect lighting, power and heat trace circuits in wet, weather exposed, corrosive or hazardous locations. Appleton™ PlexPower™ Panelboards– the new innovation in panelboard simplicity, only from Emerson™.

# Simplify Panelboard Installation and Breaker Maintenance

## Standard Materials

- Enclosure: stainless steel
- Hardware: stainless steel
- Bus bar: hard drawn, tin plated copper



*PlexPower™ Factory Sealed Panelboard*



*PlexPower™ Fused Factory Sealed Panelboard*

## Standard Features

- Factory Sealed Panelboards features 1-, 2-, 3- pole branch breakers only.
- Fused Factory Sealed Panelboards features 3- pole branch switches with fuses.
- Ground-breaking design uses individual breaker housings to minimize the downtime and cost of servicing circuit breakers in hazardous locations
- Lighter weight enclosure is easier to install and can be quickly opened in the field for easier servicing
- No external conduit or cable seals required, making installations faster, easier, and less costly
- Horizontal and vertical coupling options for limitless installation flexibility
- 3 circuit to 54 circuit panelboard configurations are standard, with or without mains breaker; up to 60 Amps per branch breaker (contact your local representative for larger amperages)
- Uses standard, off-the-shelf main and branch circuit breakers and fuses that are easy to source, stock and service
- Supplied with standard hard drawn, tin plated copper bus bar for superior corrosion resistance
- Gland plate at the bottom of enclosure and optional gland plates on all sides can be easily field punched for cable or conduit entries
- Standard configuration includes internal actuators and a solid door; factory installed options include window door or external actuators
- Breaker modules supplied with captive bolts
- Ground and neutral bars provided as standard
- External ground lug provided as standard

## Certifications

- Class I, Zone 1, AEx de IIB+H<sub>2</sub> T5
- Ex de IIB+H<sub>2</sub> T5
- Class I, Division 2, Groups B, C, D
- Class II, Division 1, Groups F, G <sup>①</sup>
- Class III <sup>①</sup>
- IP66, Type 4X <sup>②</sup>

<sup>①</sup> Certification only applies without drain/breather.

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# Built for the Global Marketplace

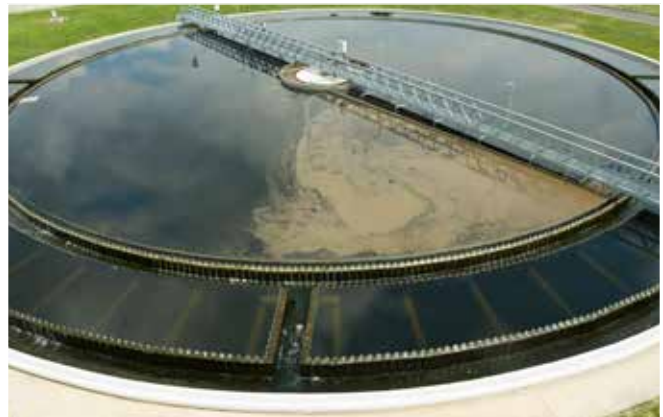
Appleton™ PlexPower™ panelboards provide explosionproof protection of lighting, heat trace and power circuits in NEC/CEC Class I, Division 2; Class I, Zone 1; and Class II hazardous locations. Indoors or outdoors, in weather exposed and corrosive environments, PlexPower™ panelboards provide the ideal electrical distribution solution for every part of your facility.

## Industries and Applications

PlexPower™ panelboards provide indoor and outdoor protection and control of electrical circuits in hazardous environments. These robust and rugged panelboards are ideal for placement in wet, corrosive environments or where flammable gases or vapors are likely to be present.



**Chemical and Petrochemical Manufacturing**



**Waste and Wastewater Treatment Facilities**



**Offshore Drilling Rigs**



**Refineries**

# Configured to Your Exact Requirements

PlexPower™ panelboards are available in materials to suit your needs for corrosion resistance and durability. Factory installed options allow you to specify panelboards that deliver optimal performance for every facet of your operation. When you need to upgrade, PlexPower™ is designed for easy reconfiguration and expansion in the field – with no need to seal conduit or cable entries and no need to rewire terminations.

## Standard off-the-shelf Breakers

### Factory Sealed Panelboards

- Available breaker modules:
  - QC Frame
  - F-Frame
- Available mains circuit breaker:
  - Up to 150 Amps, 2- or 3-pole
- Available branch circuit breakers:
  - 1-pole: 120, 277, 347 Volts, 60 Amps maximum
  - 1-pole: 120 Volts, 30 Amps, GFI or EPD
  - 2- and 3-pole: 240 Volts, 40 Amps maximum
  - 2- and 3-pole: 480, 600 Volts, 150 Amps maximum

### Fused Factory Sealed Panelboards

- Available breaker modules:
  - F-Frame
- Available mains circuit breakers:
  - Up to 150 Amps maximum
- Available fuses:
  - Up to 30 Amps maximum

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## Standard Options

- Drain/breather, add suffix **—DV** (*with drain/breather*)
- Ground fault interrupter breakers for 120V single pole:
  - For 5 mA, add suffix **—GFI** after breaker
  - For 30 mA, add suffix **—EPD** after breaker
- External actuation, add suffix **—EXT**
- Grounded neutral, add suffix **—GN**
- Gland plate, specify suffix:
  - **GPL** = left side
  - **GPR** = right side
  - **GPT** = top side
  - **NGP** = no gland plate
- Heater for condensation,
  - For Class I, Division 2 and Class I, Zone 2 equivalency, add suffix **—HTR**
  - For Class I, Zone 1 certification, add suffix **—HTRF**
    - No change to standard certifications
- LED indicator lights, add suffix **—IL**
- Heater for panels certified to -40°C (-40°F) ambient temperature,
  - For Class I, Division 2 Groups B, C, D only, add suffix **—HTR40**
  - For Class I, Zone 1 certification, add suffix **—HTRF40**
    - No change to standard certifications
- Inverted feed, add suffix **—INV**
- Phenolic nameplate (specify legend), add suffix **—NP**
- Door padlocking provision, add suffix **—P**
- Stainless steel legend plate (specify legend), add suffix **—SP**
- Terminal blocks instead of direct wiring, add suffix **—TB**
- Window with internal actuation only, add suffix **—W**

# Circuit Protection and Control Simplified

With component level protection, standard ordinary location circuit breakers can be replaced or upgraded in minutes – with no danger of compromising flamepaths. An optional mains breaker simplifies disconnection of all branch circuits for maintenance, with no disconnect fuses to replace.

## Breaker Flexibility

- 1. Rugged Termination:**  
Each housing connects to the panelboard by means of line terminations designed for unyielding performance through years of heavy vibrations and shocks.
- 2. Flameproof enclosure housing:**  
Labyrinth joint construction and flame arrestors maintain hazardous location rating while allowing easy disassembly for servicing breakers.
- 3. Venting plate:**  
Unique design of housing allows safe heat dissipation, enabling breakers to maintain their rated amperage while eliminating nuisance tripping.
- 4. Field Replaceable Components:**  
Standard, off-the-shelf circuit breakers and fuses are easy to obtain and reduce inventory costs and downtime.
- 5. Field Replaceable Fuses:**  
Standard, off-the-shelf fused circuit breakers are easy to obtain and reduce inventory costs and downtime.

### Mains Breaker Module



### Branch Breaker Module



### Fused Module



# Easy to Install

Engineered to solve operational problems, PlexPower™ panelboards are built of lighter materials to install simply and securely into your existing layout. The modular design can be easily reconfigured in the field to accommodate the circuits you need – today and tomorrow.

## Fused Factory Sealed Panelboard — Size E 12 Circuit

### Hinges

Robust hinges allow for 180° door opening.



### Cover

Self-aligning, reinforced cover is easy to open and resists twisting or deformation.

### Mounting Feet

Robust hardware with welded mounting feet for greater strength.

### Latches

Quarter turn latches for easy access. No danger of improperly torquing cover bolts or damaging a precision machined flamepath.

# Easy to Operate

PlexPower™ panelboards are designed with the user in mind, providing instant visual confirmation of breaker position and easy access to actuators, with no heavy cover to unbolt, remove and replace.

## Factory Sealed Panelboard — Size D 12 Circuit





# Easy to Maintain

PlexPower™ powerboards simplify maintenance, with ample working room, a bus bar design, hard drawn branch breaker, connections and modular breaker housings that are easy to open for service.

## Incoming Mains Breaker (MCCB) Or Disconnect

Optional 3-pole mains breaker up to 150 Amps for simple disconnection of all branch circuits for maintenance, with no disconnect fuses to replace.

## Neutral Lug

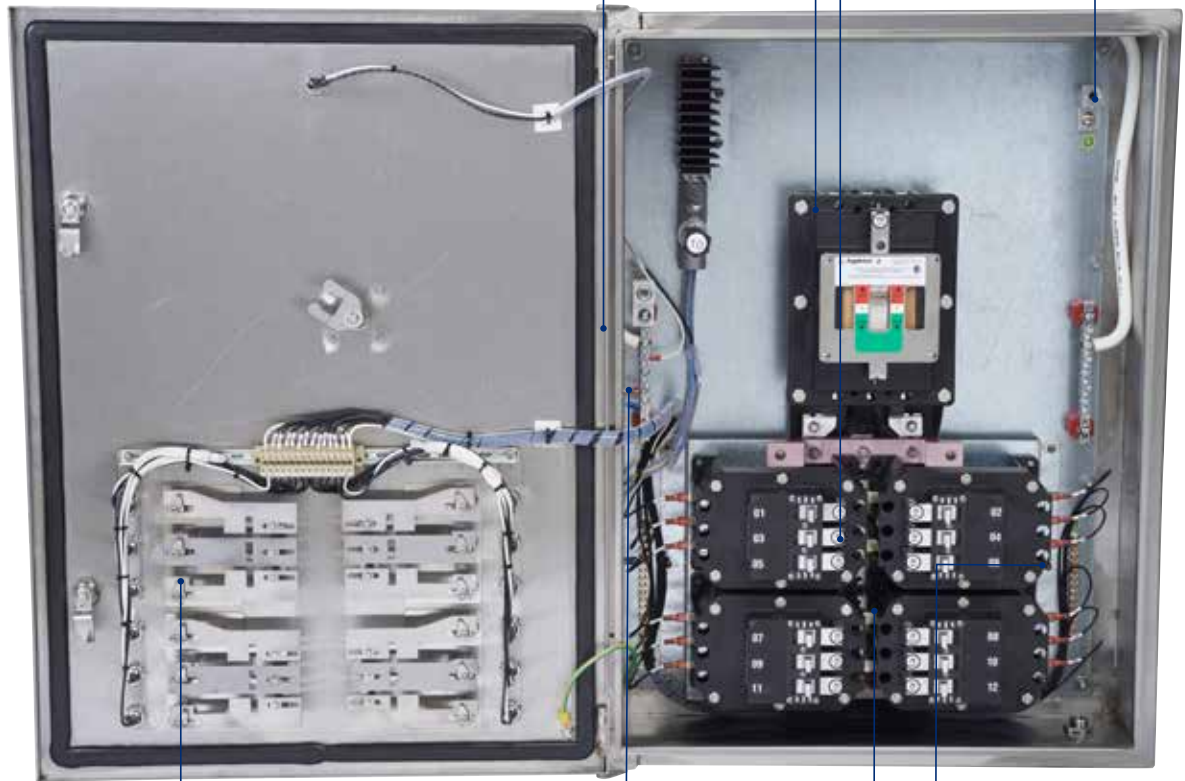
Standard neutral lug mounted on a standard neutral bus bar for incoming neutral connection.

## Bus Bar

Stand hard drawn copper bus bar provides robust, reliable and efficient electrical connections in a compact space.

## Ground Lug

Standard ground lug for incoming connection.



## Actuators

Optional self-aligning stainless steel actuators.

## Ground Bus

Standard ground lug for incoming connection.

## Connection Links

Hard copper branch connections.

## Factory Installed Line Connections

Simplified wiring with plenty of working room; connections are sized to accept 1-pole branch breakers up to 347 Volts/60 Amps, and 2- or 3-pole breakers up to 600 Volts/150 Amps.



**Modular level protection that is easy to install, maintain, and operate.**



**APPLETON™**

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