



**Explosionproof Protection
Simplified**

**Appleton™ Plexpower™ Lighting
and Power Panelboards**
Product Overview Brochure





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™.

Lightweight Installation and Modular Configuration

PlexPower™ Panelboards are lighter in weight than traditional cast enclosures. They can be coupled in horizontal or vertical orientations to accommodate almost any footprint. No hard wiring or looping – an integral hard drawn, tin plated copper bus bar provides exceptional corrosion resistance and offers greater flexibility for expansion and upgrades while eliminating wire stresses.

- 304 stainless steel enclosure with welded mounting feet is standard.
- Factory sealed design requires no additional seals such as barrier glands, Teck connectors or conduit seals
- Standard gland plate on the bottom and optional gland plates on every side allow cable and conduit entries to be added in the field

Industries and Applications

The Appleton™ PlexPower™ panelboard provides indoor and outdoor protection and control of electrical circuits in hazardous environments.

These panelboards are ideal for placement in wet, corrosive environments or where flammable gases or vapors are likely to be present.



Chemical and Petrochemical Manufacturing



Refineries

Certifications

Lighting Panelboards: 120/240 Volt, 240 Volt, 120/208 Volt

- Class I, Zone 1, AEx de IIB+H₂ T5
- Ex de IIB+H₂ T5
- Class I, Division 2, Groups B, C, D
- Class II, Division 1, Groups F, G (without drain/breather)
- Class III (without drain/breather)
- IP66, Type 4X (with drain/breather)

Power Panelboards: 277/480 Volt, 480 Volt, 347/600 Volt, 600 Volt

- Class I, Zone 1, AEx de IIB+H₂ T5
- Ex de IIB+H₂ T5
- Class I, Division 2, Groups B, C, D
- Class II, Division 1, Groups F, G (without drain/breather)
- Class III (without drain/breather)
- IP66, Type 4X (with drain/breather)

Fused Lighting and Power Panelboards: 120 - 600 Volt

- Class I, Zone 1, AEx de IIB T5
- Ex de IIB T5
- Class I, Division 2, Groups C, D
- Class II, Division 1, Groups F, G (without drain/breather)
- Class III (without drain/breather)
- IP66, Type 4X (with drain/breather)

Heavy Duty Protection

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.

Factory Sealed Panelboard



Fused Factory Sealed Panelboard



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

Superior Enclosure Design

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

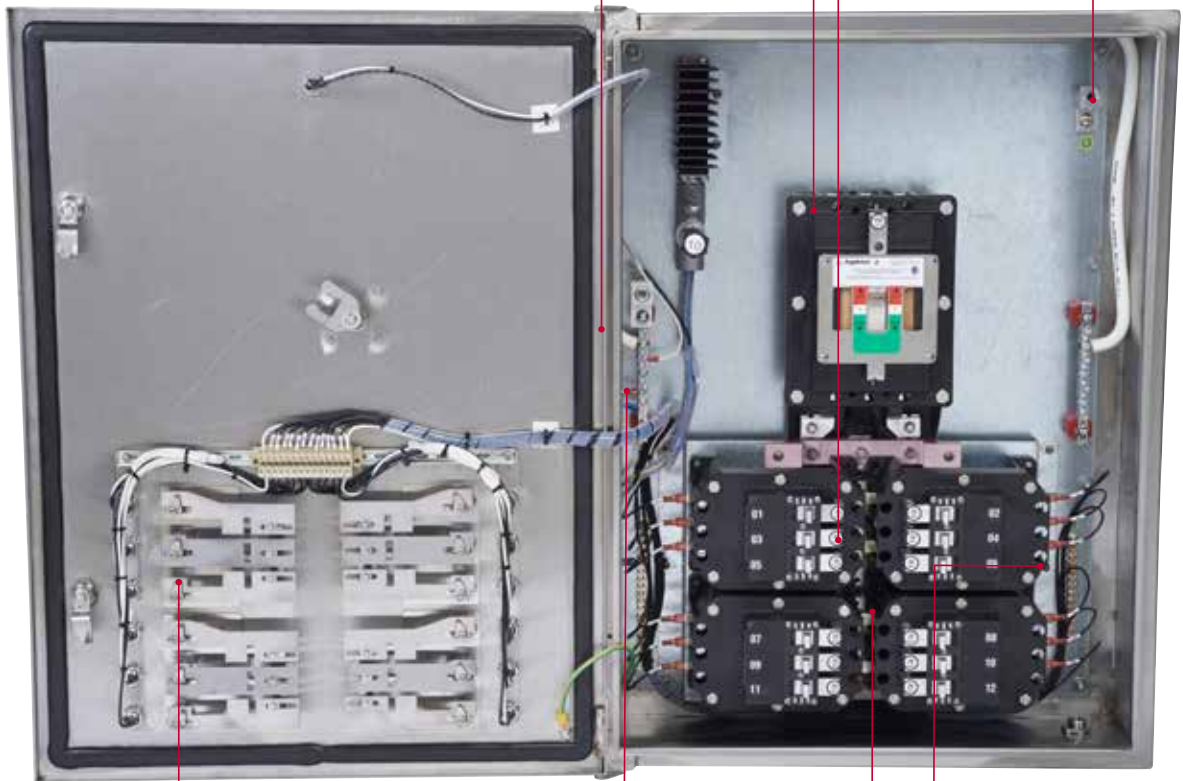
Standard neutral lug mounted on a standard neutral bus bar for incoming neutral connection.

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.

An Innovative Way to Protect Breakers in Hazardous Locations

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.



Mains Breaker Module



Branch Breaker Module



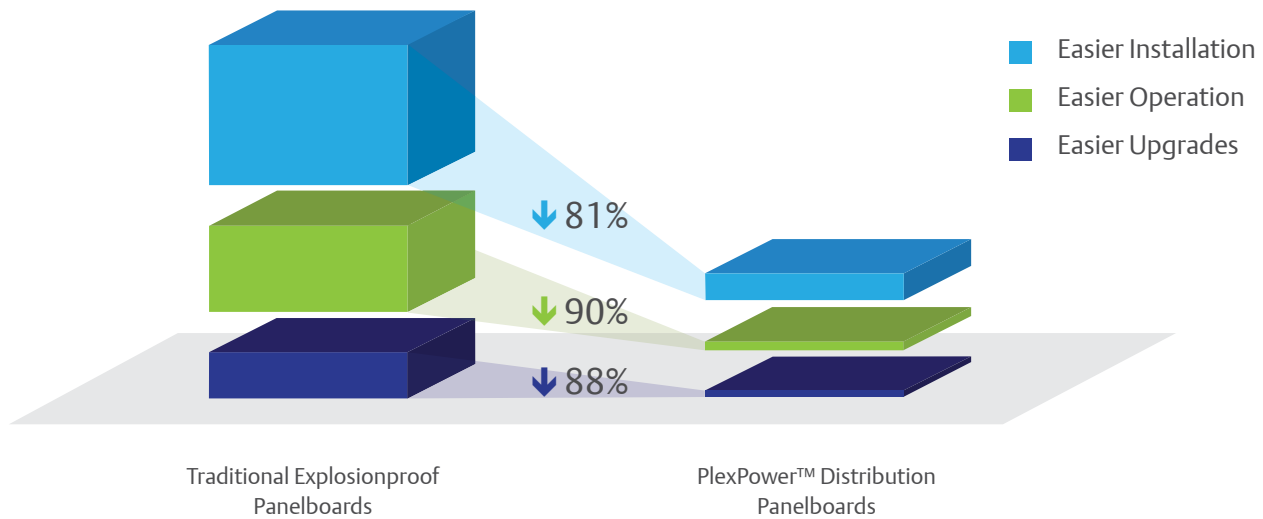
Fused Module

Each modular breaker housing is protected by its own integral flamepath. PlexPower™ Panelboard breaker modules eliminate the need for specially designed hazardous location breakers or a heavy, precision-machined cast enclosure with bolted cover.

- Use standard off-the-shelf breakers that are easy to obtain and affordable to stock
- Labyrinth joint construction and flame arrestors maintain hazardous location rating while allowing easy disassembly for servicing
- Anti-loosening termination and efficient heat dissipation help ensure reliable breaker performance without de-rating
- Factory Sealed Panelboards features 1-, 2-, 3- pole branch breakers only.
- Fused Factory Sealed Panelboards features 3- pole branch switches with fuses.

85% Lower Operational Costs.*

PlexPower™ Panelboards are quicker and easier to install, operate, upgrade and maintain – delivering substantial savings compared to the total ownership costs of a traditional cast and bolted panelboard.



Easier Installation

- Lighter weight enclosure with welded mounting feet
- No need for special handling equipment
- No need to install additional seals such as barrier glands, Teck connectors or conduit seals



Easier Operation

- Quarter turn latches allow quick access to the inside of the panel
- Self-aligning reinforced cover and robust hinges allow for 180° door opening without twisting or deformation
- Optional window or external actuators allow you to verify breaker position without opening the enclosure



Easier Upgrades

- Add circuits and increase breaker capacity using affordable off-the-shelf breakers
- Bus bar design allows you to expand or reconfigure the panel with no rewiring



Easy Maintenance

- Use infrared scanning to inspect breakers without powering down the panelboard
- Minimize downtime and production loss during routine inspection
- Replace breakers by opening individual housings with standard hand tools

SIMPLIFY, PROTECT AND SAVE

Visit www.appletonelec.com or contact your local Appleton representative to configure your PlexPower™ Panelboards for your requirements today – with confidence you can easily upgrade as needed tomorrow.

* Based on typical parts and labor costs, PlexPower™ Panelboards can save up to 85% in the first year of ownership compared to the cost of installing, operating and maintaining a traditional cast and bolted breaker panel. Savings continue to accrue year after year with each maintenance event that would otherwise require expensive parts and extensive downtime.

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



Appleton™ is the cornerstone brand of Emerson's Electrical Apparatus and Lighting business; trusted worldwide to make electrical installations safer, more productive and more reliable.

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