

AGPPX/ASPPX Series PlexPower™ Distribution Panelboard

Increased Safety

ATEX/IECEX: Zones 1 and 2 – 21 and 22

Applications

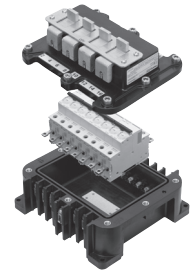
- The AGPPX and ASPPX Series PlexPower™ panelboard provides indoor and outdoor protection and control of electrical circuits in hazardous environments such as:
 - Petroleum plants
 - Chemical plants
 - Refineries
 - Other process facilities
- Ideal for placement in wet, corrosive environments or where flammable gases or vapors are likely to be present.
- Suitable for use on lighting, heat trace and power circuits.

Features

- No external conduit or cable seals required thus making installations faster, easier, and less costly.
- Limitless flexibility through horizontal and vertical coupling options.
- The PlexPower™ factory sealed 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.
- The lighter weight panelboard enclosure can be quickly opened in the field for easier servicing.
- 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
 - Internal wiring duct
 - Phenolic nameplate (specify legend)
- Optional gland plate at the bottom of enclosure can be easily field punched or drilled for cable or conduit entries. See options ①.
- 1 circuit to 72 circuit panelboard configurations are standard, with or without main breaker.
- Schneider ■ breakers are supplied as standard, making replacements readily available.
- PlexPower™ breakers accommodate ABB ☼ breakers. For a custom panelboard designed with ABB breakers, contact your local sales representative.
- Branch circuit breakers available in 1-, 2- 3- and 4-pole. Current ratings on branch breakers:
 - 1-pole: 120, 240 Volts, 63 Amps maximum.
 - 2-, 3- and 4-pole: 240 and 415 Volts, 63 Amps maximum.
- Branch breakers are labeled with numbers:
 - Odd numbers for line side
 - Even numbers for load side.
 - Labeled with inside breaker details
- Main circuit breaker:
 - 40 to 200 Amps, 2-, 3- or 4-pole.
- Branch and main breakers can be padlocked in either the “On” or “Off” position.
- Breaker modules supplied with captive bolts.
- Ground bar provided as standard.
- External ground lug provided as standard.
- 240/415 Volt breaker module with space for 8 Poles.
- 600 Volt Main Breaker MCCB Module suitable for 200 A MCC.



AGPPX Panelboard



8 M Module — Exploded View

- Ambient temperature ratings:
 - Standard model: -20 °C to +55 °C (-29 °F to +131 °F).
 - Other ambient temperatures available, contact your local sales representative

Standard Materials

- Enclosure: glass reinforced polyester (GRP) or stainless steel
- Hardware: stainless steel
- Bus bar: hard drawn copper
- Chassis: MS painted type for wall mounting use

Options

- Alternate frame (structure) available for floor mounting or self standing with and without canopy. Contact your local sales representative for additional information.

ATEX/IECEX Certifications and Compliances

- Certification Type: AGPPX / ASPPX
 - Gas: Zones 1 and 2
 - Conforming to ATEX 94/9/EC: Ⓢ IIC2G
 - Equipment Protection Level: EPL Gb
 - Type of Protection: Ex db eb IIB+H2 / IIC
 - Temperature Class: T5 for Ta ≤ +40 °C (+104 °F) and T4 for Ta ≤ +55 °C (+131 °F)
 - Dusts: Zones 21 and 22
 - Conforming to ATEX 94/9/EC: Ⓢ IIC2D
 - Equipment Protection Level: EPL Db
 - Type of Protection: Ex tb IIIC
 - Temperature Class: +95 °C (+194 °F) for Ta ≤ +40 °C (+104 °F) and +130 °C (+266 °F) for Ta ≤ +55 °C (+131 °F)
- Ambient Temperatures: -35 °C (-31 °F) to +55 °C (+131 °F)
- ATEX Certificate: ExVeritas 20 ATEX 0657 X
- IECEX Certificate: IECEX EXV 19.0054X
- Ingress Protection (solid and liquid): IP66
- Ex Standards: EN/IEC 60079-0; 60079-1; 60079-7; 60079-31
- Other Standards: EN/IEC 60529 (IP); 62262 (IK)

■ Schneider is a registered trademark of Schneider Electric.

☼ ABB Asea Brown Boveri Ltd is registered with the commercial register of Zurich, Switzerland.

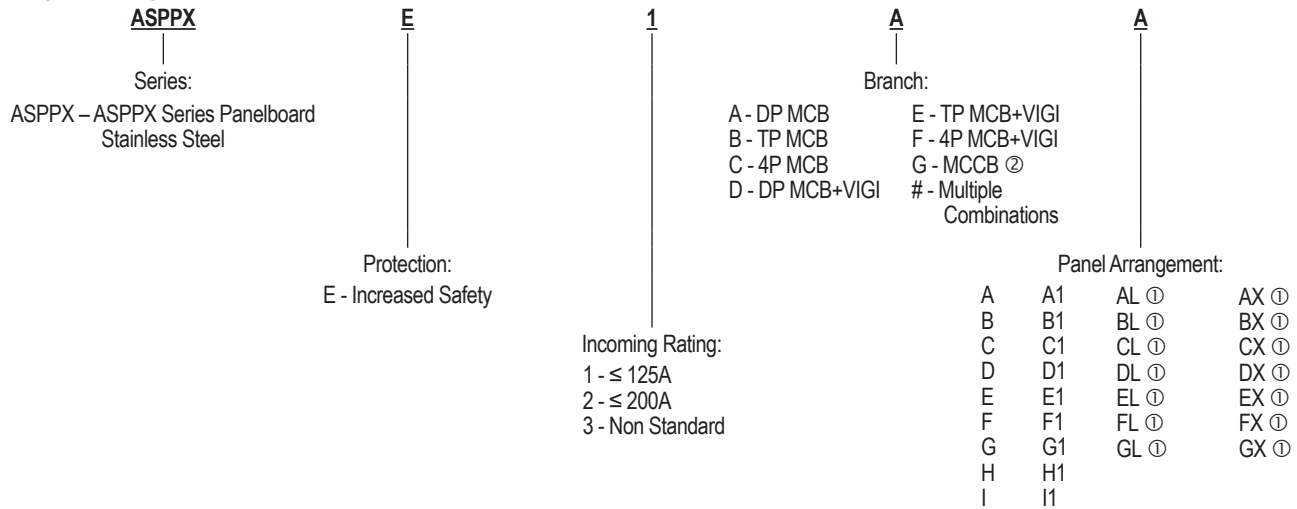
① Applicable for ASPPX Series only.

AGPPX/ASPPX Series PlexPower™ Distribution Panelboard

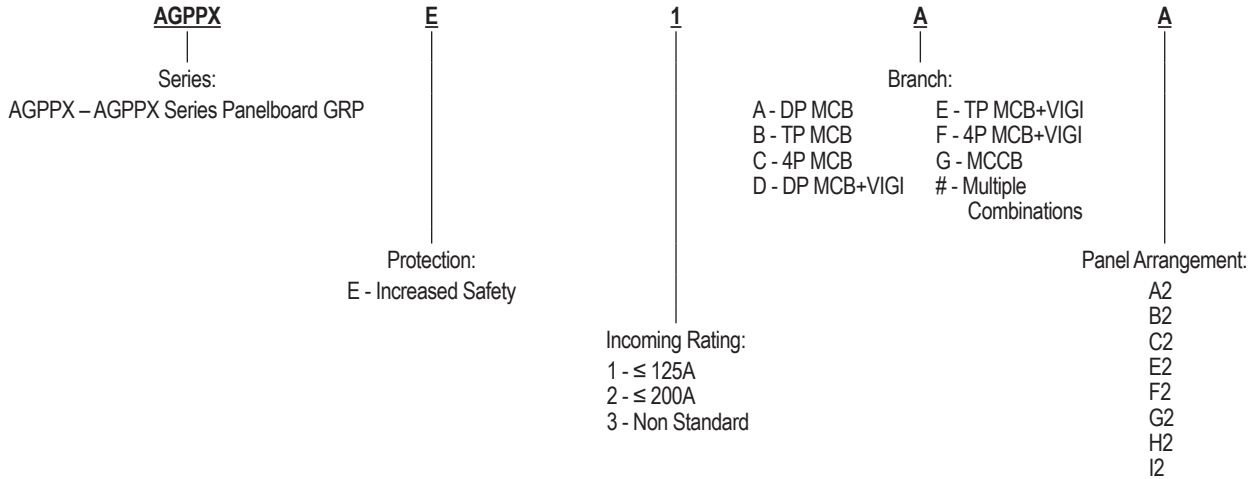
Increased Safety

ATEX/IECEX: Zones 1 and 2 – 21 and 22

Catalog Numbering Guide — ASPPX Series Stainless Steel PlexPower™ Distribution Panelboard



Catalog Numbering Guide — AGPPX Series Glass Reinforced Polyester PlexPower™ Distribution Panelboard



Selection Guide

Select the material:	AGPPX / ASPPX
Protection by Default:	E
Select the Incoming Rating:	1/2/3
Select the Type of Breaker if same type:	A/B/C/D/E/F/G / # for multiple options
Select the Panel Arrangement:	A...1 / A1...11 / AL...GL ① / AX...GX ①

Each 8M Module Can Contain

8 x SP MCB	2 x 4P MCB
4 x SP MCB + Aux Contact (1)	1 x 4P MCB + Aux Contact (1)
4 x DP MCB	2 x DP MCB + GFI
2 x DP MCB + Aux Contact (1)	2 x DP MCB + GFI + Aux Contact (1)
2 x TP MCB	1 x TP MCB + GFI
2 x TP MCB + Aux Contact (1)	1 x TP MCB + GFI + Aux Contact (1)
1 x 4P MCB + GFI + Aux Contact (1)	1 x 4P MCB + GFI

① For larger panel arrangements AL through GL and AX through GX, contact your local sales representative.

② For high incoming current and panel with MCCB only options, contact your local sales representative.

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MCCB and MCB Specifications — Breakers

Breaking Capacity ①

Circuit Breakers	NSX 100		NSX 160	NSX 250	
Breaking Capacity Levels	B F N H S L	R HB1 HB2	B F N H S L	B F N H S L	R HB1 HB2
Rated Current (A) In	100	100	160	200	200
Number of Poles	2, 3, 4	2, 3, 4	2, 3, 4	2, 3, 4	2, 3, 4

iC60N Circuit Breaker — Curve B,C,D ①

		Voltage Use		
		220 to 240V	380 to 415V	440V
Poles (2P,3P,4P)				
Poles (1P,1P+N)		100 to 130V	220 to 240V	—
Rating	0.5 to 4A	50 kA	50 kA	25 kA
	6 to 63A	36 kA	20 kA	10 kA

Vigi iC60 Add-On Residual Current Devices (RCD or GFI) — Optional ①

Voltage rating (Ue): 230 - 240 V, 400 - 415 V
Operating frequency: 50/60 Hz

Poles	Amps	Voltage Use			
		10 mA	30 mA	300 mA	100 mA
2P	0.5 to 25A	X	X	X	X
	32 to 40A	—	X	X	—
	50 to 63A	—	X	X	X
3P	0.5 to 25A	—	X	X	—
	32 to 40A	—	X	X	—
	50 to 63A	—	X	X	—
4P	0.5 to 25A	—	X	X	X
	32 to 40A	—	X	X	—
	50 to 63A	—	X	X	X

iC60H Circuit Breaker — Curve C,B,D ①

		Voltage Use		
		220 to 240V	380 to 415V	440V
Poles (2P,3P,4P)				
Poles (1P,1P+N)		100 to 130V	220 to 240V	—
Rating	0.5 to 4A	100 kA	100 kA	70 kA
	6 to 25A	50 kA	25 kA	20 kA
	32/40A	36 kA	20 kA	15 kA
	50/63A	30 kA	15 kA	10 kA

iC60H Circuit Breaker — Curve B,C,D ①

		Voltage Use		
		220 to 240V	380 to 415V	440V
Poles (2P,3P,4P)				
Poles (1P,1P+N)		100 to 130V	220 to 240V	—
Rating	0.5 to 4A	70 kA	70 kA	50 kA
	6 to 63A	30 kA	15 kA	10 kA

① For the most current information visit our website at www.appleton.emerson.com. Contact your local sales representative for other brands of Breakers.

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MPCB Specifications —Starters

GV2 RT Motor Protection Circuit Breaker ①

Voltage	Standard power ratings of 3-phase motors (AC3)		Voltage Use		Reference
	400/415V kW	440V kW	Thermal Setting Range A	Magnetic Trip Setting A	
Motor Rating	0.09	0.09 0.12	0.25...0.40	8	GV2 RT 03
	0.12 0.18	0.18	0.40...0.63	13	GV2 RT 04
	0.25 0.37	0.25 0.37	0.63...1	22	GV2 RT 05
	0.37 0.55	0.37 0.55	1...1.6	33	GV2 RT 06
	0.75	0.75 1.1	1.6...2.5	51	GV2 RT 07
	1.1 1.5	1.5	2.5...4	78	GV2 RT 08
	2.2	2.2 3	4...6.3	138	GV2 RT 10
	3 4	4	6...10	200	GV2 RT 14
	5.5	5.5 7.5	9...14	280	GV2 RT 16
	7.5	7.5 9	13...18	400	GV2 RT 20
	9 11	11	17...23	400	GV2 RT 21

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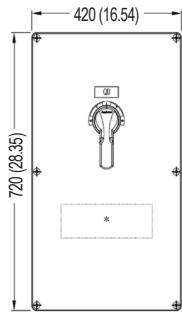
Increased Safety

ATEX/IECEx: Zones 1 and 2 – 21 and 22

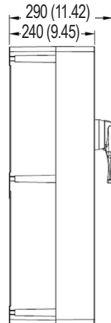
Glass Reinforced Polyester (GRP) Standard Panel Arrangement Layout — Dimensions in Millimeters (Inches)

Panel Arrangement A2

Front View

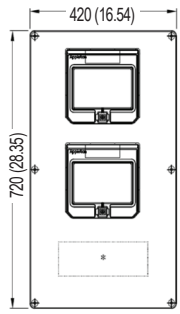


Side View

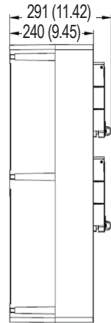


Panel Arrangement B2

Front View

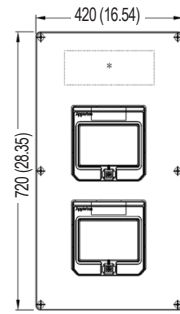


Side View

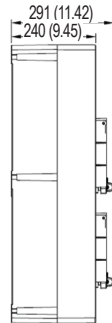


Panel Arrangement C2

Front View

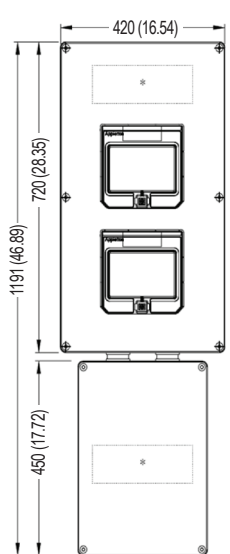


Side View

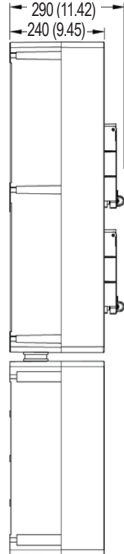


Panel Arrangement E2

Front View

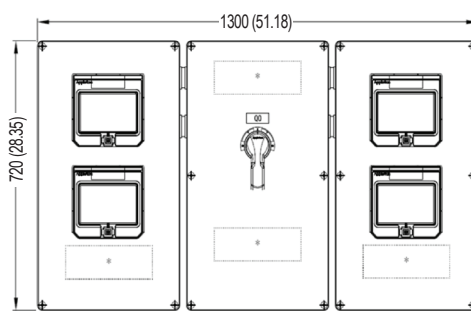


Side View

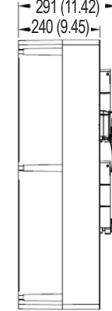


Panel Arrangement F2

Front View



Side View



* Indicates the position for the Busbars and Terminals.

AGPPX/ASPPX Series PlexPower™ Distribution Panelboard

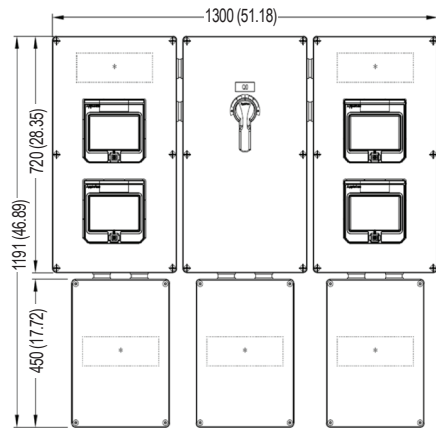
Increased Safety

ATEX/IECEX: Zones 1 and 2 – 21 and 22

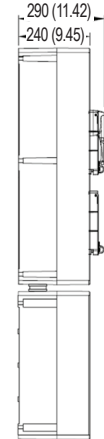
Glass Reinforced Polyester (GRP) —Standard Panel Arrangement Layout — Dimensions in Millimeters (Inches)

Panel Arrangement G2

Front View

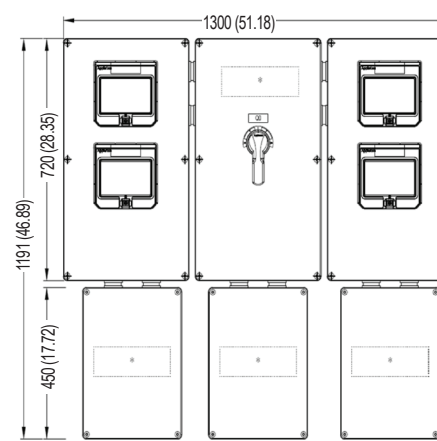


Side View

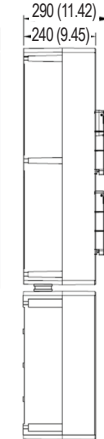


Panel Arrangement H2

Front View

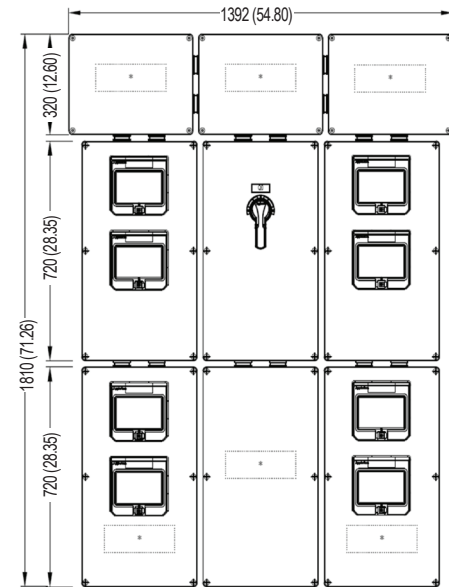


Side View

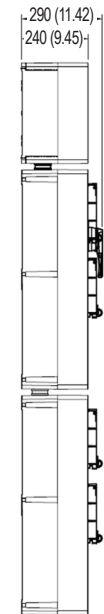


Panel Arrangement I2

Front View



Side View



Distribution Equipment

* Indicates the position for the Busbars and Terminals.

AGPPX/ASPPX Series PlexPower™ Distribution Panelboard

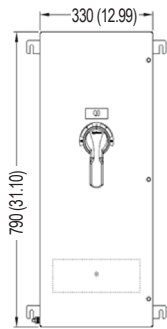
Increased Safety

ATEX/IECEx: Zones 1 and 2 – 21 and 22

Stainless Steel — Standard Panel Arrangement Layout — Dimensions in Millimeters (Inches)

Panel Arrangement A

Front View

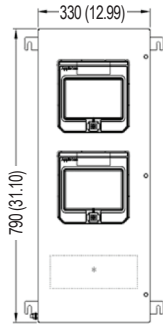


Side View

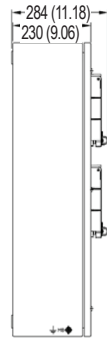


Panel Arrangement B

Front View

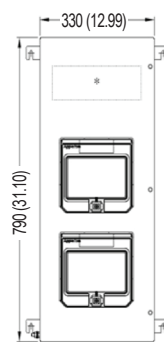


Side View



Panel Arrangement C

Front View

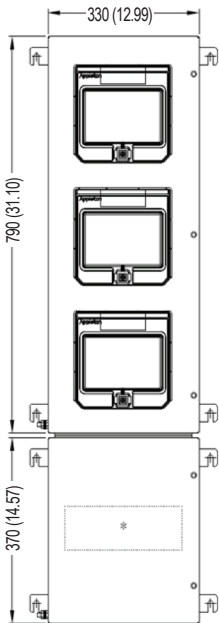


Side View

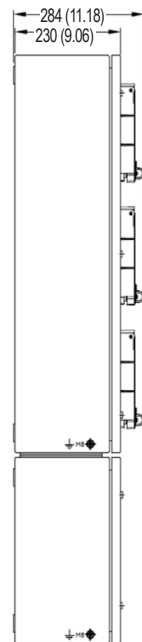


Panel Arrangement D

Front View

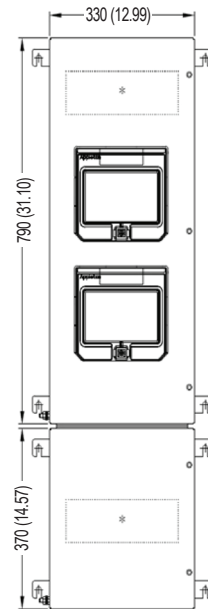


Side View

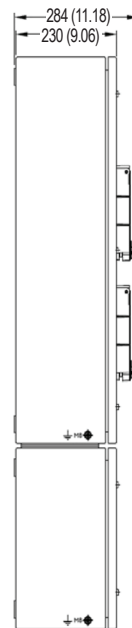


Panel Arrangement E

Front View



Side View



* Indicates the position for the Busbars and Terminals.

AGPPX/ASPPX Series PlexPower™ Distribution Panelboard

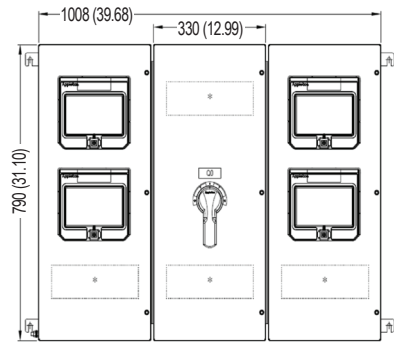
Increased Safety

ATEX/IECEx: Zones 1 and 2 – 21 and 22

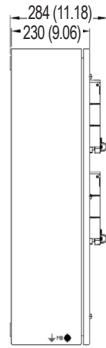
Stainless Steel — Standard Panel Arrangement Layout — Dimensions in Millimeters (Inches)

Panel Arrangement F

Front View

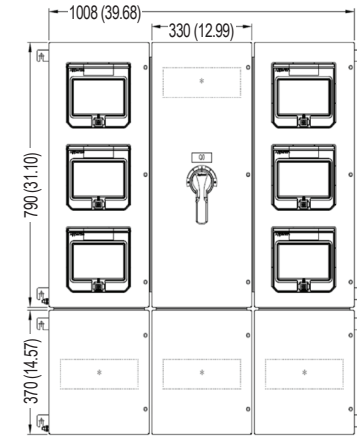


Side View

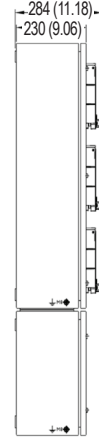


Panel Arrangement F

Front View

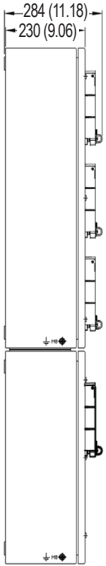
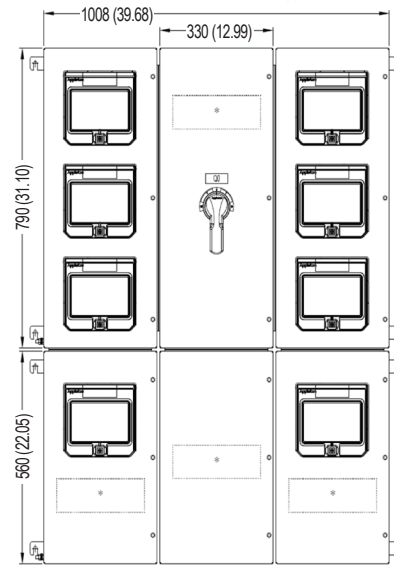


Side View



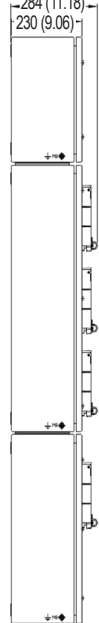
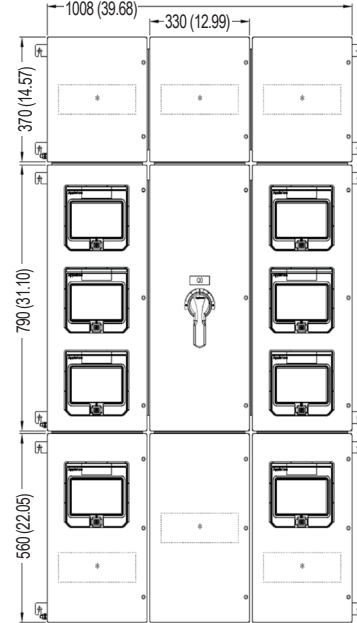
Panel Arrangement H

Front View



Panel Arrangement I

Front View



Distribution Equipment

* Indicates the position for the Busbars and Terminals.

AGPPX/ASPPX Series PlexPower™ Distribution Panelboard

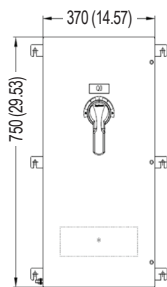
Increased Safety

ATEX/IECEx: Zones 1 and 2 – 21 and 22

Stainless Steel — Standard Panel Arrangement Layout — Dimensions in Millimeters (Inches)

Panel Arrangement A1

Front View

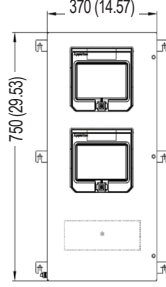


Side View

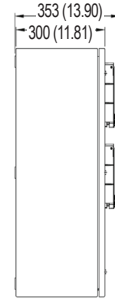


Panel Arrangement B1

Front View

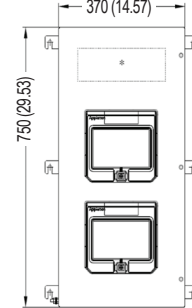


Side View

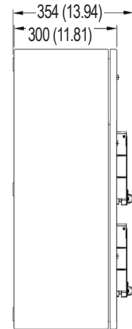


Panel Arrangement C1

Front View

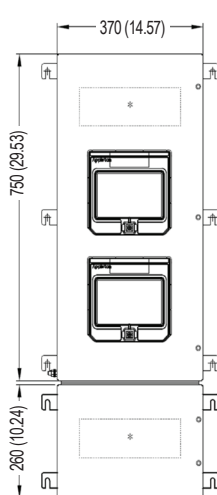


Side View

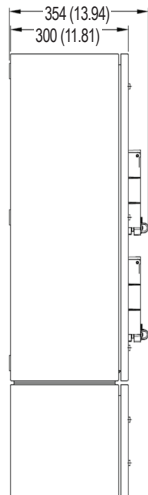


Panel Arrangement E1

Front View

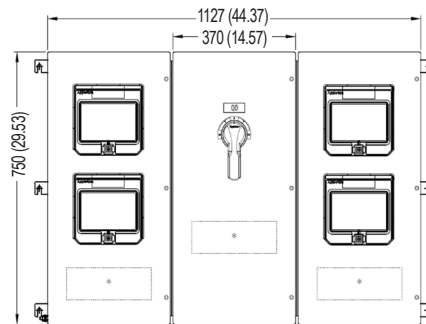


Side View

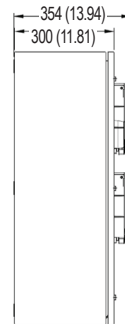


Panel Arrangement F1

Front View



Side View



* Indicates the position for the Busbars and Terminals.

AGPPX/ASPPX Series PlexPower™ Distribution Panelboard

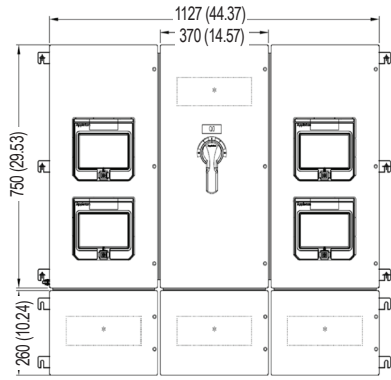
Increased Safety

ATEX/IECEx: Zones 1 and 2 – 21 and 22

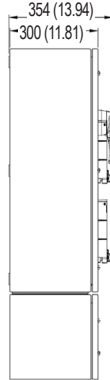
Stainless Steel — Standard Panel Arrangement Layout — Dimensions in Millimeters (Inches)

Panel Arrangement G1

Front View

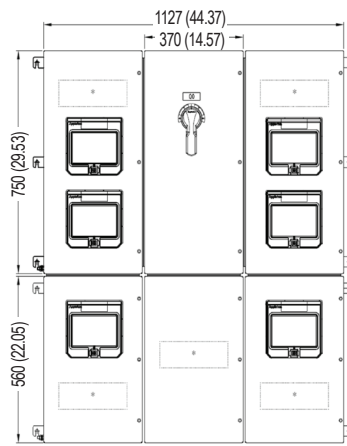


Side View

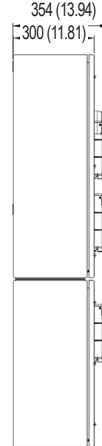


Panel Arrangement H1

Front View

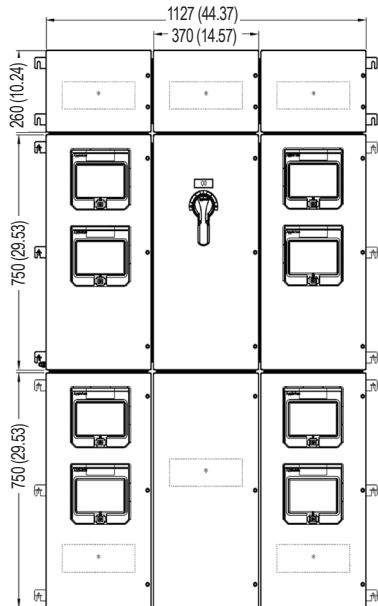


Side View

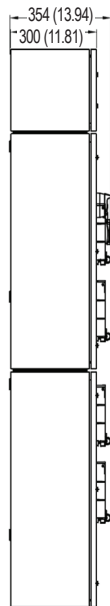


Panel Arrangement I1

Front View



Side View



Distribution Equipment

* Indicates the position for the Busbars and Terminals.