





www.unionconnector.com

Bulletin: PDS-113

Custom power distribution equipment is our specialty

Union Connector has been manufacturing electrical equipment since 1929. In that time we have received a well deserved reputation for building safe, dependable products that satisfy our customer's needs.

We provide solutions for power distribution requirements in:

- Theatres
- Convention Centers
- Casinos
- Hotels

- Stadiums
- Arenas
- Houses of Worship
- Schools

These solutions are designed for special applications such as:

- Theatrical Lighting Systems Architectural Lighting
- Portable Power Distribution
- Generator Connection
- Audio Power Distribution
- Outdoor Power Distribution

Custom equipment can range from a simple 20A. portable box to an outdoor, 1600A. 3-phase power center with meters, multiple branch circuits with a combination of receptacle styles.

Contact our engineering department to discuss your project's needs and see how we can help provide you with a safe, reliable, UL Listed, power distribution solution.

Available options:

Enclosure variations:

- NEMA 1
 Powder Coated Steel
- NEMA 3R
 Stainless Steel
- NEMA 4X
- Custom colors
- Surface Mount
- Pad Mount
- Recessed Mount

Ratings:

- Single phase 120V.
- Three Phase 120/208V.
- Multiple Vac ratings
- Single Phase 120/240V.
- Three Phase 277/480V.
- 20A. to 1600A.

Overcurrent Protective Devices (OCPD) / Switches:

- Molded case circuit breakers
 Molded case switches
- Branch Rated Fuses
- Fused Boltswitches

- Fused Heavy Duty Switches

Receptacles / output connections:

- Cam (reverse G/N option)
- SafeCam®
- Posi-LokTM
- Pin & Sleeve

- Stage Pin
- Nema (Edison & Locking)
- 19-pin
- Direct bus connection

Miscellaneous:

- Meters
- Contactors

- Isolated Ground
- Remote Control



Arena Outdoor Power Center

Enclosure: NEMA 3R, 48" x 48" x 36", free-standing, double

door, ASA 61 gray powder-coat finish.

A switch operated fluorescent light is mounted

to the interior ceiling.

Feed: 1200A., 3-phase, 277/480V. Entry is through

slab into the enclosure.

Transformer: Step down, dry type, 3-phase, 480V. primary to

120/208V. Y secondary.

Circuit Molded-case, UL489, 10K AIC @ 240V.

(3) 60A., 3-pole (3) 50A., 2-pole

(10) 20A. 1-pole

Contactors: (2) 60A., 3-pole, EOMH

Outlets: (1) 60A., 120/208V., Pin & Sleeve

(3) 50A., 125/250V., non-NEMA Locking

(9) 20A., 125V. GFCI duplex (1) 20A., 125V. duplex

Listing: UL Listed



Arena Outdoor Power Center

Enclosure: NEMA 3R, 72" x 72" x 36", free-standing,

double door, ASA 61 gray powder-coat finish.

A switch operated fluorescent light is mounted to the interior ceiling

Feed: 1200A., 3-phase, 120/208V. Conduit entry is

through slab into the bottom of enclosure.

Fused (4) 200A. 3-pole single throw heavy duty

Disconnects: switches w/200A. fuses

Circuit Molded-case, UL489, 10K AIC @ 240V.,

Breakers: (2) 60A., 3-pole

(6) 50A., 2-pole (10) 20A., 1-pole

Outlets: (4) sets of (5) 200A. Cams

(2) 60A., 120/208V., Pin & Sleeve

(6) 50A., 125/250V., non-NEMA Locking

(9) 20A., 125V. GFCI duplex (1) 20A., 125V. duplex





Stadium Broadcast Power Center

NEMA 1, 33" x 60" x 12", surface mount, Enclosure:

gray powder-coat

Feed: 400A., 3-phase, 120/208V. Entry is through

the top of enclosure.

Molded-case, UL489, 10K AIC @ 240V Circuit

Breakers: (1) 400A., 3-pole, Main (65K AIC)

> (2) 200A., 3-pole (2) 60A., 3-pole

Contactors: (2) 60A., 3-pole

Outlets: (2) sets of (5) 200A. Cams

(1) set of shunt-trip protected, copper bus

w/solderless terminals (2) 60A., 120/208V., Pin & Sleeve

Analog ammeter with phase selector switch Metering:

UL Listed Listing:



Stadium Power Center

Enclosure: NEMA 1, 90" x 51" x24", free standing,

ASA 61 gray powder-coat

Feed: 1000A., 3-phase, 120/208V. Entry is

through the bottom of the enclosure.

Molded-case, UL 489, 10K AIC @ 240V. Circuit

Breakers: (1) 1000A., 3-pole, Main (65k AIC)

> (6) 200A., 3-pole (5) 30A., 1-pole

(6) 20A., 1-pole

(6) sets of (5) 200A. Cams **Outlets:** (5) 30A., 125V., L5-30

(6) 20A., 125V., GFCI duplex





Stadium Show Power Center

Enclosure: NEMA 1, 10 ½ ft. x 6 ft. x 1 ft., freestanding, ASA 61 gray enamel. Multiple bus

connection chamber doors are provided beneath Cam outlet circuits.

Feed: 1600A., 3-phase, 120/208V. Entry is through the side of the enclosure to terminals on

the Main copper bus.

Circuit Molded case, UL489, 65K AIC@240V.

Breakers: (1) 1600A., 3-pole Main

(1) 800A. 3-pole Branch (1) 600A. 3-pole Branch (1) 400A. 3-pole Branch (1) 200A. 3-pole Branch (2) 100A., 3-pole Branch

Outlets: (2) sets of (6) 400A. Cams plus (1) set of bus lugs - (øA, øB, øC, N, G) (800A. circuit)

(2) sets of (6) 400A. Cams plus (1) set of bus lugs - (øA, øB, øC, N, G) (600A. circuit) (1) set of (6) 400A. Cams plus (1) set of bus lugs - (øA, øB, øC, N, G) (400A. circuit) (1) set of (5) 200A. Cams plus (1) set of bus lugs - (øA, øB, øC, N, G) (200A. circuit)

(2) 100A. 120/208V. Pin & sleeve





Convention Center Ballroom Power Center

Enclosure: NEMA 1, 60" x 50" x9", recess mount, blue

enamel, voltage barrier

Feed: 800A., 3-phase, 120/208V.

200A., 3-phase, 277/480V.

Entry is through the sides of the enclosure.

Fused Boltswitch type

Pull-out (1) 400A., 3-pole, w/(3) 400A., 300V. fuses

Switches: (2) 200A., 3-pole, w/(3) 200A., 300V. fuses

(1) 200A., 3-pole, w/(3) 200A., 600V. fuses

Outlets: (1) set of (5) 400A., 120/208V. Cams

(2) sets of (5) 200A., 120/208V. Cams (1) set of (5) 200A., 277/480V. Cams

Listing: UL Listed



Convention Center Power Panel for Portable Equipment

Enclosure: NEMA 1, 60" x 50" x 9", surface mount, blue

enamel

Feed: 1200A., 3-phase, 120/208V. Entry is through

the bottom of the enclosure to copper busbars.

Circuit Molded case, UL489, 65K AIC@240V.

Breakers: (2) 400A., 3-pole

(1) 200A., 3-pole

(1) 100A., 3-pole

Outlets: (2) sets of (5) 400A. Cams

(1) set of (5) 200A. Cams (1) set of (5) 100A. Cams





State Park Outdoor Power Center

The enclosure is a 60" x 6" x 16" NEMA 3R single door cabinet with an interior fluorescent worklight.

Feed to the enclosure is 400A. 3-phase, 120/208V. that enters the cabinet from the side.

Unit contains

- (1) 400A. Branch 3–pole breaker in a Company Switch
- (1) 60A. 3–pole Safety Switch
- (4) 20A. Branch 1-pole breakers

Output is:

- (1) set of 400A., 120/208V. Cams
- (4) 20A., 125V. duplex.



University Arena Outdoor Power

The enclosure is a 45" x 39" x 25" NEMA 3R double door cabinet with rack rails for signal gear on the reverse side of the power section.

Feed to the enclosure is 400A. 3-phase, 120/208V. that enters the cabinet from below. A hinged access door is provided below the main door for portable cable entrance to the connection area.

Unit contains

- (2) 100A. Branch 3–pole breakers
- (2) 50A. Branch 2-pole breakers
- (2) 30A. Branch 2-pole breakers
- (2) 20A. Branch 1-pole breakers

Output is:

- (2) 100A., 120/208V. Pin & Sleeve
- (2) 50A., 250V. 6-50
- (2) 30A., 250V. L6-30
- (2) 20A., 125V. duplex.





Convention Center Recessed Outdoor Company Switch

Enclosure: NEMA 4X, 30" x 18" x 6", recess mount, gray ASA

61 enamel.

Enclosure size was constrained by the physical location between two structural members of the

building.

Feed: 400A., 3-phase, 120/208V. Entry is through the

back of the enclosure to terminals on the breaker.

Circuit Molded case, UL489, 65K AIC@240V.

Breaker: (1) 200A., 3-pole

Outlets: (1) set of (5) 200A. Cams

Listing: UL Listed



Hugh School Gym/Auditorium Recessed Company Switch

Enclosure: NEMA 1, 21" x 24" x 7", recess mount, blue enamel.

Keyed locks for doors protecting outlet panel and

breaker controls.

Feed: 200A., 3-phase, 120/208V. Entry is through the top of

the enclosure to terminals on the breaker.

Circuit Molded case, UL489, 65K AIC@240V.

Breaker: (1) 200A., 3-pole

Outlets: (1) set of (5) 200A. Cams w/covers on lanyards





Community Theatre Fused Power Center

Enclosure: NEMA 1, 60" x 28" x 14", surface mount, blue enamel

Feed: 600A., 3-phase, 120/208V. Conduit entry is through the

top of the enclosure to terminals on the switch.

Fused UL Listed double-break rotary blade type fused safety

Switch: switch.

The operating handle prevents inadvertent opening of the

fuse access chamber door during operation. (1) 400A., 3-pole switch with (3) 400A., 300V. fuses

Outlets: (1) set of (5) 400A. Cams

Listing: UL Listed



Arena Fused Company

Enclosure: NEMA 1, 42" x 21" x 12", surface mount, gray ASA 61

enamel. Cam outlets are mounted inside the padlockable outlet chamber. A hinged trapdoor on the bottom of the

chamber allows for cable entry.

Feed: 400A., 3-phase, 120/208V. Entry is through the top of the

enclosure to terminals on the switch.

Fused UL Listed double-break rotary blade type fused safety

Switch: switch.

The operating handle prevents inadvertent opening of the

fuse access chamber door during operation.

(1) 400A., 3-pole switch with (3) 400A., 300V. fuses

Outlets: (1) set of (9) 400A. Cams - (3) Line (ø A, øB, øC)

(4) Neutral (2 male/2 female)

(2) Ground (1 male/1 female)





Arena Generator Connection Panel

Enclosure: NEMA 3R, 24" x 48" x 18", surface mount,

locking single door, gray ASA 61 enamel. A hinged trapdoor on the bottom of the enclosure allows for portable cable entry.

Facility Lugs on copper bus for facility wiring

Connection: termination. Bus is rated to 1600A. Entry is

through top of the enclosure into bus wiring

chamber.

Fused UL Listed double-break rotary blade type

fused safety

Inlets: (5) sets of (5) 400A. Cams

Cams are color-coded for 277/480V.

Listing: UL Listed



University Theatre Outlet Panel

Enclosure: NEMA 1, 24" x 30U x 12", rack cabinet, black

enamel,

Feed: (2) circuits - 100A., 3ø, 120/208V.

(3) circuits - 200A., 3ø, 120/208V. (1) circuit - 400A., 3ø, 120/208V.

Entry is through the sides of the enclosure.

Unit provides direct connection of branch circuit wiring from a lighting panelboard to the outlet

panels

Outlets: (2) 100A., 120/208V. Posi-Lok™ panels

(3) 200A., 120/208V. Posi-Lok™ panels

(1) 400A., 120/208V. Posi-Lok™ panel





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Jacksonville, FL
Tel: 631-753-9550 Fax: 631-753-9560