

Power Control Aisle™ (PCA)

Powell Walk-In NEMA-3R Equipment Enclosures

DESIGN CONCEPT

Powell's Power Control Aisle™ product line offers a compact and economical solution to provide an environmentally protected personnel aisle-way in front of your NEMA-3R switchgear line-up. The control aisle construction can be added to any Power/Vac® standard NEMA-3R non walk-in cubicle design. The personnel control aisle portion of the assembly can be quoted as a stand-alone product for addition to any existing PowerVac NEMA-3R, non-walk in switchgear line-up currently installed in the field.

CONSTRUCTION AND DESIGN FEATURES:

The power aisle assembly is constructed of formed 11-gauge steel panels and can be attached to the front of Powell's weatherproof NEMA-3R switchgear cubicles, for both 5kV and 15kV applications.

Doors with padlock provisions and panic hardware are located at each end of the aisle. A working space with a minimum width of 36-inches is provided at one end to serve as a general work area, storage area, or space for batteries and charger.

Ventilation openings are louvered, equipped with filters, and located on the personnel access doors. Convenience receptacles, three-way light switches, and interior lighting is included as a standard.

DESIGN CONFIGURATIONS

Power Control Aisle offers flexible design options to fit your specific equipment configurations while providing additional working spaces as required for miscellaneous support equipment and accessories. Overall dimensions may vary based on code requirements. Multiple workspace sections can be provided to create an extended floor plan to house supporting equipment such as utility panels, battery chargers, batter racks, work desks, storage units, etc.



Assembled Power Control Aisle



Typical Single Aisle Power Control Aisle (PCA™) Assembly
Side elevation showing personnel access door

POWER CONTROL AISLE (PCA™)

Designed for our customers that require additional environmental control and design features, Powell's Power Control Aisle offering provides an economical alternative to a Power Control Room (PCR®) assembly.

TYPICAL DESIGN FEATURES AND ACCESSORIES:

- 11 gauge formed steel panels
- Hinged rear access doors or bolted panels
- Personnel access doors
- Powdercoat paint finish: ANSI-61
- Roof mounted ventilation fan
- Comfort heater (Optional)
- Wall/Roof/Floor insulation (optional)
- Wind/Snow load ratings (if specified)
- Seismic ratings (if specified)
- Top-Lift as a standard
- Structural skid with bottom lifting lugs (optional)
- PE Stamping of structural assembly (if specified)

SHIPPING OPTIONS FOR POWER CONTROL AISLE (PCA™)

Powell's Power Control Aisle product can ship in one of three ways:

1. Economical flat-pack shipment, requiring assembly in the field by Powell Service Division personnel or customer selected site installation contractor.
2. Control Aisle portion shipped assembled and wired in 2-wide or 3-wide shipping split configurations for quick reconnection at the jobsite.
3. Fully assembled Switchgear and Control Aisle on a steel skid base, within shipping size restrictions, ready to set in-place upon arrival at the jobsite.



Typical Powell Power Control Aisle™ Installation with a structural steel skid mounted on concrete piers



Typical Powell Power Control Aisle™ interior with switchgear installed.