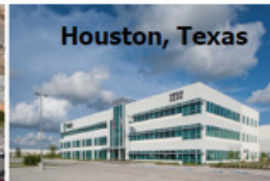


**Manufacturing Locations:**

- **Houston, Texas 3 sites**
- **North Canton, Ohio**
- **North Lake, Illinois**
- ★ **Edmonton, Canada**
- **Bradford, United Kingdom**



## ANSI Metal-Clad Switchgear

Powell medium voltage PowlVac® and Power/Vac® Metal-Clad Switchgear is completely designed and fabricated by Powell. The range of voltage and current ratings are the most comprehensive in the industry, and all equipment is tested to applicable ANSI, NEMA, and IEEE standards.

**PowlVac®** : 5KV – 38KV / 1200A – 4000A main bus ratings  
Standard and Arc Resistant designs  
Standard and optional “narrow designs”

**Power/Vac®**: Acquired the Power/Vac product line in 2006  
5KV – 15KV / 1200A – 4000A main bus ratings  
Indoor nema 1 and outdoor nema 3R

## ANSI Metal-Enclosed Switchgear

Powell manufactures 600V class Switchgear and 5kV-38kV Load Interrupter Switchgear for both indoor and outdoor applications. Standard and Arc-Resistant designs are available for both product lines.

**FlexGear™**: Low voltage metal-enclosed switchgear is a universal design platform  
Main bus rating up to 5000 amps  
Standard and Arc Resistant construction

**Load interrupter switchgear**:  
Voltage ratings from 5kV to 38kV  
NEMA-1 and NEMA-3R designs available

## DC Switchgear and Power Rectifiers

Powell's DC Switchgear, DC Breakers, and Rectifiers are commonly used in light rail and transit applications, but also in other markets where DC power and power conversion is required. Our capabilities include incorporating AC switchgear and DC switchgear into integrated power conversion systems capable of providing reliable power systems for all your DC power distribution requirements.

**DC Switchgear**:  
Voltage ratings from 800VDC to 1600VDC  
Current ratings from 4000 amp to 8000 amp  
Designed and Tested to IEEE C37.14.2002, IEEE C37.16.2000, IEEE 693-2005

## Integrated Packaged Solutions

Powell has an integrated electrical and automation package solution to meet any installation, environment, or application: onshore power control rooms and e-houses, offshore power distribution modules, cost-efficient protected aisle enclosures, and mobile power distribution solutions.

**E-Houses:** Rigid frame construction on a structural steel skid  
Single-piece or multi-split solutions  
Factory tested in accordance with the latest UL, IEEE, CSA, and NEMA standards

**Power Control Rooms:**  
Interlocking panel design on a structural skid base  
Single-piece or multi-split designs  
Shipped fully integrated with power and control interconnects installed

**Power Control Aisle:**  
Formed steel panel construction  
Shipped fully assembled or in flat-pack form for field assembly

**Mobile Substations:**  
Portable electrical distribution system designed for easy deployment and set-up  
Equipment enclosures utilizes Powell PCR interlocking panel construction mounted on a flat-bed trailer

## Bus Systems

Powell is the premier designer and manufacturer of bus systems in the United States. Our markets include utilities, co-generation, light/heavy industrial, and commercial.

**Cable Bus:** Voltage levels up to 38,000 volts  
Current levels up to 5,000 amps  
CSA certified to C22.2 #27 and C22.2 #201

**Non-Segregated Phase Bus Duct:**  
Voltage levels up 38,000 volts  
Current levels up to 8000 amps  
IEEE, IEC, and CSA compliant

**Isolated Phase Bus Duct:**  
Voltage levels up to 38kV  
Current levels 600A - 42kA

## Distribution Switches

Powell distribution switch solutions are available in subsurface, pad-mount, and transformer-mounted constructions for use in load-break, source-transfer, loop-fed, and fault-interrupting applications. Gas insulated and solid-dielectric designs can be customized to meet your requirements and application.

**Pad-Mount Switches:**  
15kV up to 38kV applications  
600 amp continuous current  
SF6 insulating medium

**Subsurface/Vault Switches:**  
Underground distribution applications  
Multiple switch configurations

**Automatic Transfer Switches:**  
Auto Transfer with Load Fault Protection  
Multiple Source Configurations

## High Resistance Grounding

High Resistance Grounding (HRG) can add the safety of a grounded system while minimizing the risk of service interruptions due to grounds, providing maximum continuity of service. Powell's High Resistance Ground systems are available for both 600V and 5kV systems. Units can be constructed as stand-alone cubicles or installed integral to low voltage or medium voltage switchgear.

### 600V Class High Resistance Grounding Assemblies:

- Increase Safety for Equipment and Personnel
- Quickly locate ground fault source

### 5kV Class High Resistance Grounding Assemblies:

- 2400V and 4160V applications
- Delta or Wye configurations available

## NEMA MCC

Powell can offer a variety of 480V – 600V MCC manufacturers to meet your project needs and specifications as part of our integrated solutions. For our MV MCC offering, we provide a Powell-built structure utilizing standard draw-out or fixed mounted contactor.

### 600V Class Motor Control Centers:

- Customized MCC designs, by Powell, available
- Full buy-out options from a variety of established MCC manufacturers

### FlexTrol™ Medium Voltage Motor Control:

- Arc Resistant and Non Arc Resistant construction available
- Two-high 400 amp and One-high 800 amp designs
- Utilizes Powell's patent pending Arc-Link™ technology

## Powell Global Services

Powell provides an extensive list of services to deliver electrical power systems that are safe, reliable and cost effective to operate in the most critical of applications around the globe. Powell also provide direct roll in retrofit breakers for several commonly used breakers.

### Powell Service Division (PSD):

- Complete range of retrofit replacement vacuum circuit breaker solutions including:
  - GE Type AM & A2M
  - Westinghouse Type DHP
  - Westinghouse Type DHE
  - Federal Pacific Type DST
  - ITE Type HK
  - Allis Chalmers / Siemens Type MA
  - McGraw Edison Type PSD
  - McGraw Edison Type WSA
  - Etc...

