

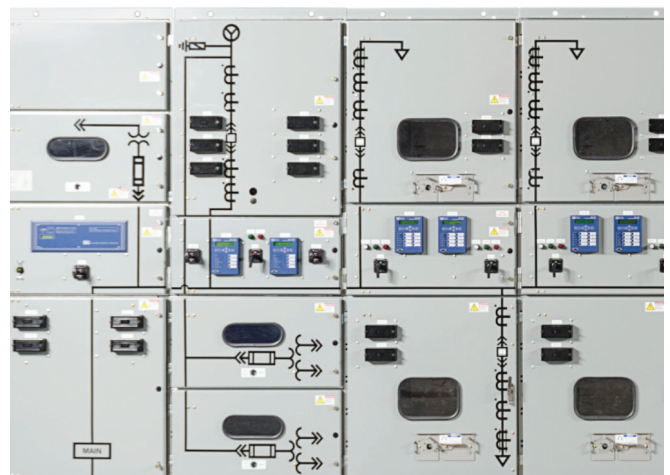
## ***Metal-Clad Switchgear***

Switchgear Power Systems metal-clad switchgear is available from 5kV-38kV in outdoor non-walk-in, indoor, and PDC enclosures.

### **Flexibility**

SPS equipment is engineered to order, and is supplied with components from the customer's preferred manufacturer, including protective relays, meters, circuit breakers, and instrument transformers. SPS engineering and design capabilities provide customers the flexibility to match existing installations, meet unique site requirements, achieve their desired equipment ratings, or trailer mount the switchgear for mobility.

- Components from all major OEM's
- Remote Racking and Integral Racking Options
- One-High and Two-High Construction
- Extended Warranty Available
- Third Party Labeling Available
- Continuous Current Ratings of 1200A-4000A
- Voltage Ratings from 5kV-38kV
- Short-Circuit Ratings up to 63kA
- Spring operated or magnetically actuated circuit breakers
- 3-Cycle Circuit Breakers



## Low Voltage Switchboards

Switchgear Power Systems low voltage switchboards are available to 600VAC, 4000 Amp in outdoor non-walk-in, indoor dust-tight, and PDC enclosures. Each switchboard is engineered to order, and can be configured to meet a specific footprint and busway or transformer connection.

### NEMA 12 Construction

SPS welded-frame, NEMA 12 enclosures provide protection from dust and other airborne contaminants. The accuracy of a switchboard specific arc-flash label is dependent on maintaining the OEM specified circuit breaker opening time, and preventing ingress of airborne contaminants into molded-case circuit breakers is crucial to ensuring their proper operation and opening time. In high airborne particulate environments, heavily ventilated enclosures represent a risk management concern and negatively impact the safety and reliability of the electrical system. SPS NEMA 12 enclosures are an economical solution to improve safety and mitigate electrical system risk.



- Components From All Major OEM's
- Fully Rated Copper Bus (1000A per square inch)
- Remote Racking Options
- Fix-Mounted and Draw-Out Construction
- Arc Resistant Type 2B Construction Available
- NRTL Labeling
- Continuous Current Ratings of 400A-6000A
- Short-Circuit Ratings up to 100kA
- Seismic Rating Through IBC Zone 4
- NEMA 1, NEMA 12, and NEMA 3R Enclosures
- Welded Frame Construction

## ***Metal-Enclosed Load Interrupter Switchgear***

Switchgear Power Systems metal-enclosed switchgear is available from 5kV-38kV utilizing air-insulated and gas-insulated switches. The switchgear can be supplied in NEMA 1, NEMA 3R, and PDC enclosures.

### **Flexibility**

SPS load interrupter switchgear is custom engineered, and is ideally suited for a variety of applications, including service entrance, primaries for unit-substations, transformer switching, source transfer, line switching, and cable switching. SPS can accommodate front-access-only requirements and close couple to all manufacturer's transformers. Other available options include:

- Utility Metering
  - Surge Arresters
  - Instrument Transformers
  - Snubbers
  - IR and Ultrasound Windows
- Components from all Major OEM's
  - NRTL Labeling Available
  - Voltage Ratings from 5kV-38kV
  - Continuous Current Ratings of 200A-1200A
  - Momentary Withstand Ratings to 80kA
  - Fault Close Ratings to 61kA
  - Motor Operated Switches
  - Stored Energy and Snap Action Mechanisms
  - Current Limiting and Expulsion Fuses
  - Extended Warranty Available





## ***Power Distribution Centers***

The Switchgear Power Systems PDC is a custom engineered, environmentally controlled, pre-fabricated enclosure built to house electrical equipment. Each PDC is designed to meet the specific needs of our customer's project. SPS Power Distribution Centers set the standard for flexibility, reliability, and performance.

### **Design**

Switchgear Power Systems PDC's are designed with longevity in mind. All exterior components are constructed using A60 galvalume, and finished with a proven paint system tested to ANSI standard C57.12.28. Exterior walls are interlocked and gasketed, which combined with our welded and capped roof panel design delivers unparalleled protection from the environment. Interior panels and joiners utilize a unique tab and slot design, eliminating the need for screws and rivets and providing an aesthetically pleasing appearance.

SPS PDC's are proven to stand up to the harshest environments, including waste water treatment, pulp and paper mills, corn mills, and mining facilities.

### **Quality**

SPS quality begins at order entry and design and continues through equipment delivery and commissioning. Each PDC is custom designed to the specific needs of the project, and thoroughly tested in accordance with the latest industry standards, including a rain test in an indoor test booth.

Our rigorous quality process combined with unmatched workmanship and design ensures every PDC delivers to the customer ready for decades of reliable operation.



#### **SPS PDC's comply with the following industry standards:**

- International Building Code
- Uniform Building Code
- National Electric Code
- Canadian Standards Association
- National Fire Protection Association
- American Institute of Steel Construction
- Institute of Electrical and Electronic Engineers
- American National Standards Institute
- National Electrical Manufacturer's Association