

# Metalclad Switchgear



PACS is committed to tackling the challenges associated with changing and emerging energy technologies. With decades of experience, we've been innovating ways to manage electrical current safely and efficiently.

PACS Metal Clad Switchgear products are configured to customer preference in either one or two high arrangements with any manufacturer breaker/cradle combination. Automatic control as well as motorized and manual through door racking is available for all designs. Metal Clad Switchgear is available in coated or stainless steel for both indoor and outdoor use and can be gasketed for special environmental applications.

At PACS Switchgear LLC, nothing is more important to us than the safety of your workers. Used in conjunction with Personal Protective Equipment (PPE), our custom line of free-standing, self-supporting Metal Clad switchgear provides basic protection for personnel during normal operation. Non PPE, Arc Resistant (PACSAFE) construction is also available with similar options.



*PACS engineers customize Metalclad Switchgear with a focus on safety and ease of access for maintenance.*

## Technical Specifications

### Ratings:

- 5 kV – 60 kV BIL – 63 kA IC – To 4,000 Amps.
- 15 kV – 95 kV BIL – 63 kA IC – To 4,000 Amps.
- Generator Equipment To 63kA IC – To 6,000 Amps.
- 27 kv – 125 kV BIL – 40 kA IC – To 3,000 Amps.
- 38 kV – 200 kV BIL – 31.5 kA IC – To 4,000 Amps.

### Manufactured and tested to the following Standards:

- ANSI/IEEE C37.20.2
- ANSI/IEEE C37.20.013 Generator Switchgear
- IEEE C37..20.04, 06, 09 Vacuum Circuit Breakers
- IEC 62271-100 & 200

### NEMA 1, 3R and 4X Construction Indoor and Outdoor

Available in one high and two high construction

## Suitable for:

- Electric Utilities
- Wind Generation
- Industrials
- Distribution

**Proudly Made in the USA**

## Engineered for Safety

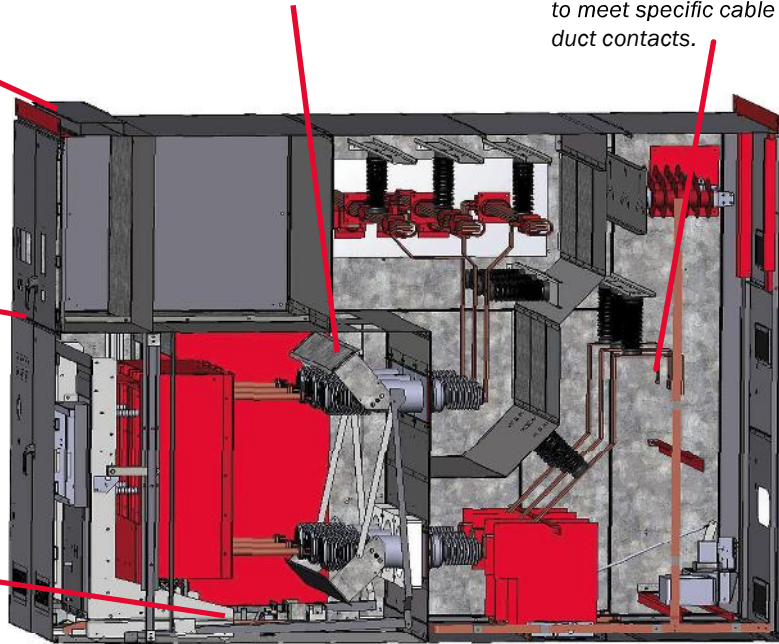
Grounded 11 gauge steel compartments, with hinged doors, isolate all live parts from operating surfaces, forming a "dead front" that allows operators to safely manipulate controls and instrumentation. All control circuits are segregated from high voltage circuits by metallic barriers.

Safety interlocks ensure that doors cannot be opened while circuit breakers are energized. Visual indication is provided to show whether breakers are in Connect, Test or Disconnect position.

Horizontally withdrawable circuit breakers and transformers, operated via hand crank or remote control, can be connected and disconnected without opening the doors.

Grounded metal shutters automatically engage when breakers are removed from their compartment, and cover the front of the primary (high voltage) plug-in connection bushings to prevent inadvertent access.

Rear compartments surround fully insulated copper bus that carries electrical current between switchgear sections, circuit breakers and customer connections. Silver plated terminals can be customized to meet specific cable or bus duct contacts.



## Innovative Solutions

PACS Switchgear LLC provides turnkey services from Conceptual Design through Shipment. With state-of-the-art 3D modeling, our engineers prepare creative solutions for the most complex applications. Modular design using ANSI/IEEE certified compartments allow us to create unique products without the need for extensive testing. Our proven Metal Clad products are rated up to 38kV, 5000A and 200kV BIL.

The best way to avoid a destructive electrical Arc-Fault is through early detection and preventive means. PACS' optional remote monitoring system, PACSCHECK®, will continually analyze live bus bars for partial discharge, corona and voltage drop, and alerts owners of impending failures.

## Custom Enclosures

Whether you need custom enclosures manufactured as single units or split into multiple units that can be assembled on site, PACS Metal Clad Switchgear is packaged to meet your unique site needs, such as:

- Indoor/Outdoor
- Internal or Remote Relaying
- Free Standing Single Cubicle "Dog House"
- Outdoor Walk-in with Aisle
- Power Control Center with Battery Room
- Special Site Conditions (*Hazardous, Environmental, Harsh, etc*)
- Top or Bottom Cable Entry



ISO 9001-2008

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