

Metal Clad Switchgear



A design centered around minimizing investment in inspection, repair and maintenance of the installed equipment, RIC Power's Metal Clad switchgear can reduce down time and costs over the lifespan of the equipment.

Designed to meet the needs of customers who demand the highest quality power distribution assembly with the added benefit of being able to efficiently use available floor space.

Product Elements

Withdrawable Circuit Breakers: Compartments requiring a circuit breaker will utilize withdrawable vacuum circuit breaker technology which provides the end user with a product that is simple to inspect and easy to maintain complete with a proven record of reliability.

Modular Design: Using a modular design concept allows for custom configurability while minimizing overall lead time and reducing costs often associated with products designed around a specific installation.

Custom Design Solutions: For situations with unique space or cell design requirements, RIC Power can provide a design based on the concepts found in the Metal Clad series, but geared towards overcoming the specific requirements of your project. Using 3D modeling software, RIC Power is able to reduce leads times typically associated with customized product.

Accessibility: Front accessible, line and/or load side current transformers (CT's), draw out potential transformers (PT's) and draw out control power transformers (CPT's) ensure ease of maintenance, minimal usage of floor space, and an overall safer environment. High voltage cable entry and exit is typically located in the rear compartment complete with rear accessibility.

Protection & Control Elements (P&C): RIC Power can custom tailor a P&C package suited to meet the needs of each unique project.



Typical Draw-out Set of 15kV



Typical 5kV One-High Breaker Cell (Side Walls Removed)

Standard Features

- Primary circuit components are compartmentalized by the use of grounded metal barriers incorporated into the enclosure structural configuration.
- Front accessible draw out breakers, line and/or load side CT's, draw out PT's and draw out CPT's.
- Front viewing windows.
- Polyolefin heat shrunk busbar c/w booted bus connections. Busbar support structure configured for optimum heat dissipation and strength under fault conditions.
- Ground ball studs where applicable for safe maintenance practices.
- Rear infrared viewing ports (optional).

Applications & Specifications

Applications

- Oil, Gas, Pulp, Paper, Marine and Mining
- Department of National Defense
- Municipal and General Industries
- Data Centres
- Hospitals and Laboratories
- Solar Power Systems
- SCADA and Control Systems
- OEM Applications

Ratings

| Metal Clad Product Ratings | Nominal Voltage (kV) | Maximum Available Ampacity (A) | Rated Voltage Withstand / BIL (kV) | Breaker Interrupting Rating, rms (kA) |
|----------------------------|----------------------|--------------------------------|------------------------------------|---------------------------------------|
| 5kV | 4.16 | 3000 | 19/60 | 25-63 |
| 15kV | 12.47 | 3000 | 36/95 | 25-63 |
| | 13.8 | 3000 | 36/95 | 25-63 |
| | 14.4 | 3000 | 36/95 | 25-63 |
| 25kV | 27.6 | 2000 | 60/125 | 40 |

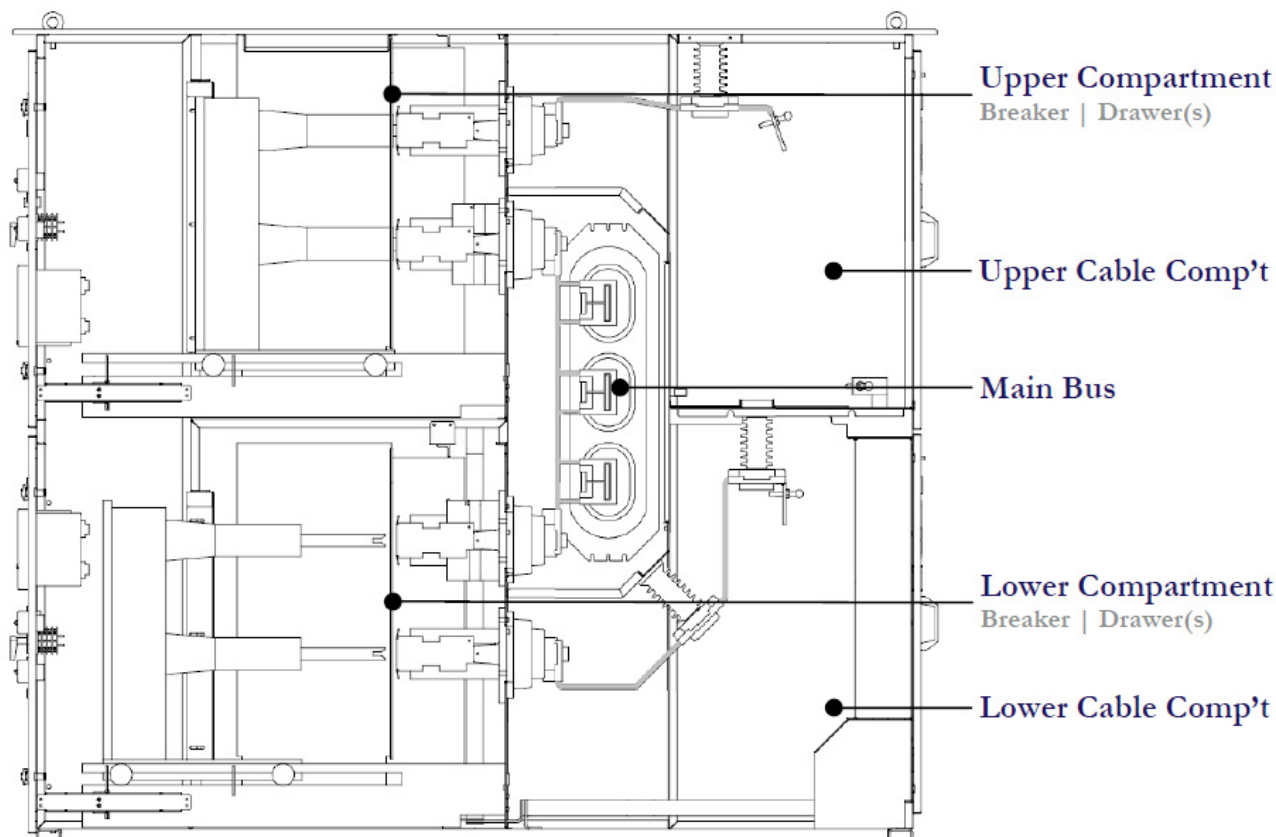
Typical Dimensions (in)

5kV: 91D x 36W x 95H
 15kV: 91D x 36W x 95H
 25kV: 108D x 36W x 95H

Custom dimensions available upon request.

Standards

CSA 22.2 No. 31
 ANSI/IEEE C37.20.2



Typical 25kV Two-High Breaker Cell
 (Side Walls Removed)