

## Switchgear: MMC – Metal-Clad

### UEE Switchgear

UEE manufactures safe, reliable, and cost-effective CSA-certified switchgear using a modular approach that leverages extensive design experience with a vast library of metal-enclosed, metal-clad and arc-flash resistant switchgear cell configurations.

Using advanced 3-D modeling techniques, our UEE design team can readily configure complex and completely unique switchgear lineups from pre-existing models without the time and cost typically associated with ground-up custom design and fabrication.

### Modular Metal-Clad Switchgear

UEE Modular Metal-Clad (MMC) Switchgear is a reliable, technically-advanced, high-voltage switching solution that can be used whenever flexibility, increased safety and the highest degree of reliability are paramount.

Available in one-high or two-high construction, UEE MMC Switchgear utilizes an industry recognized and specialized high-voltage vacuum or SF6 circuit breaker. Following nationally recognized design specifications, the circuit breaker is removable (drawout) with self-aligning primary contacts that automatically make and break the power connections as the breaker is withdrawn. Secondary contacts are either a self-aligning or manual plug type connection. When the breaker is withdrawn in the disconnected, test or removed position, automatic shutters isolate the primary contacts. The breaker is provided with safety key interlocks so that breaker operation, whether electrical or mechanical, is possible with the compartment door closed.

Similarly, each control power transformer (CPT) and voltage transformer (VT) is fully removable (drawout). The CPT is provided with a secondary breaker that must be opened before gaining access to primary fuses and the VT is grounded whenever it is being drawn out.

All main bus bar is insulated using suitably rated, halogen free, cross-linked polyolefin heat shrink tubing and joint boots that meet the requirements of ANSI/IEEE C37.20. Individually grounded metal barriers enclose and compartmentalize the main parts of the primary circuit as well as the control and protection compartment.

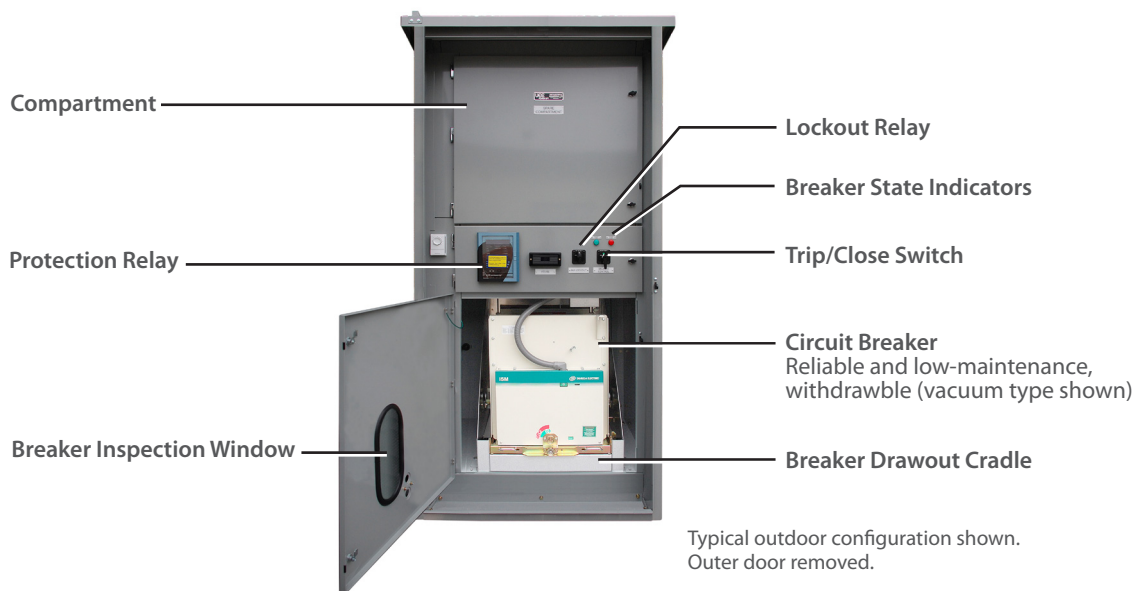


### Standards

All UEE Switchgear is certified to CSA C22.2 No 31-10, and meets the requirements of ANSI C37.20.2.



## UEE MMC Switchgear Module



Power Distribution

## Typical Specifications

| Electrical Ratings | BIL kV | Rated Short-Time Current (2 seconds) kA (RMS Sym.) | Rated Main Bus Current Amperes | Rated Maximum Voltage kV |
|--------------------|--------|--|--------------------------------|--------------------------|
| 15 kV Switchgear   | 95     | 25, 38, 50   | 600 - 3000                     | 15                       |
| 25 kV Switchgear   | 125    | 25, 38, 50   | 600 - 3000                     | 27                       |

| Breaker Ratings  | BIL kV | Dielectric Strength Test Voltage kV (RMS 60 Hz 1 min.) | Interrupting Current kA (RMS Sym.) | Continuous Current Amperes |
|------------------|--------|--|------------------------------------|----------------------------|
| 15 kV Switchgear | 95     | 36   | 16, 20, 31.5                       | 600 - 3000                 |
| 25 kV Switchgear | 125    | 60   | 16, 20, 31.5                       | 600 - 3000                 |

Higher ratings available on request.

| Physical                      |  |
|-------------------------------|--|
| Typical Cell Height           | 95"  |
| Finish                        | Heat-cured polyester powder-coat   |
| Indoor Enclosure Rating       | EEMAC 2  |
| Outdoor Enclosure Rating      | EEMAC3   |
| Tamper/Vandalism Protection   | Penta-head-actuated 3-point locking latch system (outdoors only)                           |
| Typical Cell Weight (approx.) | 15 kV: 2700 lbs indoors / 3000 lbs outdoors<br>25 kV: 3200 lbs indoors / 3500 lbs outdoors |

For additional technical details or specifications, call 1-250-497-5254 or visit [www.uee.com](http://www.uee.com).



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