

# Medium Voltage Switchgear

PowerAisle II is built for strength and safety



# Reliable, durable and completely customizable

Metal-clad substations afford utilities many advantages over open-air substation designs, including a smaller footprint and generally more protection and security. No matter if the application is part of a large substation or a microgrid, Avail Switchgear Systems can provide metal-clad PowerAisle II® switchgear that gets the job done. Every PowerAisle II switchgear is custom-designed, fully assembled and tested in our factory. Our metal-clad switchgear is available for indoor or outdoor applications and an excellent choice for safe, reliable performance.

## Rugged and enduring construction

Avail's Power Aisle II switchgear was designed with durability in mind for the utility, commercial, and industrial markets. The double-walled construction between compartments ensures the flexibility to remove and replace a vertical section, as well as maintain structural integrity for the life of the product. With a uniform coating providing maximum chemical, corrosion and heat resistance, our fluidized epoxy-coated bus is designed for longevity. Our paint process utilizes an epoxy primer and polyurethane top coat, applied in an electrostatic process to provide maximum protection against corrosion. From our outdoor enclosure to the last interior component, Power Aisle II is designed for long product life, no matter the application.



## Safety is our priority

Avail PowerAisle II switchgear has earned a reputation for delivering superior performance without sacrificing safety. Among the arc mitigation features available on PowerAisle II are:

- Remote racking of circuit breakers, PT drawers and CPT fuse drawers
- Remote mounting/isolation of relays and controls
- Use of quick trip (3 cycle) circuit breakers
- Installation of arc mitigating relays with light and current sensors



*Our Field Services Team provides unmatched service and experience*



*The installation of our customized wiring sets the industry standard for quality and efficiency*

## Standard Features

Avail PowerAisle II switchgear offers a range of superior features all designed to fit your specific requirements. The range of benefits include:

- **Ready to go** – Completely wired and tested at the factory prior to shipment.
- **Ratings** – 5 - 38kV designs for all medium voltage applications.
- **Flexibility** – Custom-engineered design can integrate any manufacturer's circuit breaker, accommodates a wide range of relay & communication systems, and allows for seamless relay panel integration
- **Connectivity** – Our designs incorporate Ethernet, SCADA, RF or other communications methods to keep utility personnel in control of their substations.
- **Localized construction** – All designs meet seismic and wind load requirements for each unique destination by zip code.
- **Fully expandable** – Removable end walls, double-doors, and transoms above doors are all available to allow for future growth
- **Smart Grid Compatible** – When applicable, installation and design meets IEC 61850 standards.
- **Security** – Outdoor metal-clad switchgear substations are fully enclosed, offering protection to equipment and utility personnel against the elements. Access doors are robust and locked for protection against intrusion, while non-discrete exteriors discourage potential assaults on infrastructure assets.
- **Maintenance Friendly** – Externally mounted galvanized steel ventilation covers allow replacement of filters without opening doors of HV cable compartments for added protection against arc-flash. Fully welded roof and wall seams eliminate the potential for leaks, rodents, and other contaminants.
- **Customized for delivery** – Shipping configurations to meet customer need – minimum shipping splits, or one-piece shipments to eliminate the challenge of on-site assembly.
- **Tested** – Compliance with IEEE, ANSI and NEC standards. Each outdoor substation is fully assembled and tested inside our factory before being prepared for shipment. Customers are always welcome for inspection visits at our facility.
  - Basic impulse level testing
  - Partial discharge testing on switchgear up to 38kV class
  - Continuous current testing

**Fully certified Arc-Resistant Metal-Clad Switchgear designs available as well.**



[availinfra.com/switchgear-systems](http://availinfra.com/switchgear-systems)

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