

POWER & ELECTRIFICATION

U.S.-ENGINEERED 38kV METAL-CLAD SWITCHGEAR

Designed and built by W-Industries in Houston for the data centers, private power systems and utilities that need 38kV capacity now.

Now available · Product brochure

38kV 50/60Hz	**2000A** 1200A also available	**40kA** 2s; 104kA peak	**150kV BIL** UL witnessed tests	**80kV Power Frequency** 60s, UL witnessed tests

THE MARKET

Why 38kV, and why now

The AI build-out and the push for behind-the-meter power have put 38kV distribution at the center of how large sites are powered. Data center campuses, and the private power systems being built to serve them, need a significant volume of 38kV capacity, and utilities are expanding the same way.

The 38kV supply chain is limited, and the supply of true UL-certified metal-clad switchgear is even more constrained.

95%

rise in U.S. demand for switchgear rated 16kV to 75kV, the class that includes 38kV, from 2019 to 2025. In 2025, demand ran 36% ahead of available supply.

Source: Wood Mackenzie with American Clean Power, September 2025

WHAT WE BUILT

A W-Industries product, built in Houston

Our own design

Switchgear, PT truck and fuse truck engineered from the ground up around the ABB ADVAC 38kV breaker and breaker cell.

First-attempt pass

Large phase-to-phase and phase-to-ground clearances. Passed dielectric testing on the first attempt, with no flashover.

Safety built in

Hard-bussed PTs, with grounding that automatically discharges the PT truck during rack-out.

Built for volume

Houston manufacturing sized for high section counts, with a Kanban-based assembly model that supports dependable delivery.

WHAT COMES NEXT

- **Available now** — 1200A and 2000A, 40kA, indoor
- **In development** — 3000A and 4000A
- **In development** — Outdoor NEMA 3R enclosure
- **On request** — Custom ratings and layouts beyond IEEE standard ratings

BUILT FOR

- **Data centers and AI campuses**
- **Behind-the-meter power**
- **Utilities**
- **Data center battery storage**

Built for what can't fail.

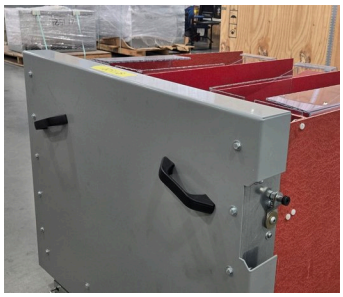
w-industries.com/service/power · 713.466.9463

THE SYSTEM

Switchgear, PT truck and fuse truck, designed by W-Industries



38kV metal-clad switchgear
ABB ADVAC 38kV breaker, draw-out



PT truck
Hard-bussed PTs



Automatic discharge
Grounding discharges the PTs at rack-out



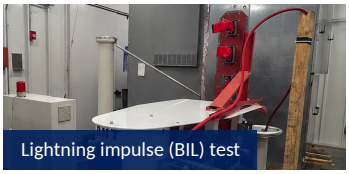
Fuse truck
Designed from the ground up

TESTED AND PROVEN

Every test witnessed by UL, at W-Industries and KEMA Labs



KEMA Labs, Netherlands



Lightning impulse (BIL) test



Power frequency withstand test



Heat run, UL witnessed

KEY RATINGS

38KV METAL-CLAD SWITCHGEAR	
Rated maximum voltage	38kV, 50/60Hz
Continuous current	1200A and 2000A
Short-time withstand	40kA for 2s
Peak withstand	104kA for 10 cycles
BIL	150kV
Power frequency withstand	80kV, 60s
Circuit breaker	ABB ADVAC 38kV, draw-out
Vertical section	42 W x 110 H x 120 D in
Standard	IEEE C37.20.2-2025

MORE DESIGN FEATURES

Insulated rectangular bus
Insulation rated above the required 38kV BIL, for enhanced tracking resistance.

No added ventilation
Passed temperature rise testing with no extra top or rear ventilation.

Custom configurations, one footprint
Custom layouts within a 42-inch-wide vertical section.

Your relay platform
Any relay and control platform, with digital monitoring and protection.

ENGINEERING AROUND THE GEAR

Power system studies
Arc flash, short-circuit, coordination, load flow, voltage drop, motor starting and harmonic analysis.

Relay settings
Protection setpoints, relay coordination, custom logic, transfer schemes, RTAC and IEC 61850 IED configuration.

Electrical design
FEED studies, power distribution design, equipment specification and sizing, arc flash mitigation and legacy retrofits.

Share your volumes and designs.

Our mission is to shave weeks off 38kV lead times. Standard configurations, an inventory model and early visibility of your project are how we get there. Whatever we build, we stay with it for the life of the asset.

Azam Jahangir
VP Growth & Strategy
azam_jahangir@w-industries.com
713.466.9463 · w-industries.com/service/power