



PASCOR ATLANTIC

PROUDLY MADE IN AMERICA

With over 115 years of experience in manufacturing high-quality disconnect switches, Pascor Atlantic is proud to be a recognized leader in the disconnect switch industry. We have been producing 765kV equipment for more than 57 years, delivering exceptional service and support to major utilities across the United States.

We are pleased to provide the following information, along with answers to frequently asked questions regarding our capabilities in manufacturing 765kV disconnect switches. For additional information or to schedule a visit, please contact your local Sales Representative or reach out to our factory directly. We look forward to supporting your high-voltage equipment needs.

765kV Equipment Technical Questions: 765kV Disconnect Switches

1. Design Parameters – 765kV Disconnect Switches
 - **Rated Maximum Voltage:** 800kV
 - **Lightning Impulse (kV peak):** To Ground 2050kV/Across Open Gap 2255
 - **Rated Withstand Voltage:** Dry 940/Wet 830kV
 - **Switching Impulse Withstand Voltage (kV Peak):**
 - **To Ground:** 1300kV
 - **Across Open Gap:** 1000kV (Switching Impulse) + 650 (60Hz)
 - **Corona Voltage & RIV:** 508kV/750 μ V@1 MHz
 - **Rated Continuous Current:** 4000A or 5000A
 - **Rated Short Circuit:** 75kA
 - **Switch Configuration:** Double End Break and Vertical Break
2. Compliance and Standards:
 - **Do your products comply with Industry Standards?** Yes, IEEE C37.30
 - **Does your manufacturing facility utilize ISO 9000 Standards?** Yes, we comply with ISO 9000
 - **Can you provide certifications or test reports for your 765kV Switches?** Yes
3. Storage, Assembly & In Field Testing and Commissioning:
 - **How are the disconnect switches packaged and shipped to the site?** Each phase packaged on wooden skids, not single pole assembled.
 - **What storage requirements are needed for packaged, unassembled disconnect switches to be stored?** Switch – None, Motor Operator – Stored indoors
 - **What is the duration to assemble your disconnect switch?** Factory – per 10 hour work day
Pascor Atlantic can produce 12 poles. Field assembly and adjustment after structure is installed– 4 days for 3-poles.
 - **After assembly, what is the duration for testing and commissioning?** Factory Testing – 15 min. Field Commissioning - > 2 Hours
4. Design Criteria – Environment Substations Questions:

- **Does the disconnect switch meet the Wind Loading in Substations (no ice) per ASCE 7-10 (typically 90 to 100 mph)?** 90 MPH wind load and 40 MPH wind load with 1" radial ice.
 - **Does your disconnect switch withstand Ice loading in substations (no wind)?** Yes, ¾"
 - **Do your disconnect switches meet the Seismic Substations ratings per IEEE-693?** No, 765kV Switches are not Seismically Qualified.
 - **Can the disconnect switches operate in an environment, where they may be exposed to excessive dust?** Yes, Customer will need to specify insulator.
5. Accessories
- **Do you manufacture a ground switch that can be paired with the disconnect switch?** Yes, AG8.
 - **Do you manufacture a motor operator for the disconnect switch?** Yes, MO-10NG
 - **Does your motor operator operate adequately to open and close the switch under ice conditions?** Yes
 - **Are there special tools, switch parts readily available, and is there a recommended spare parts list?** No Special tools required, Yes – Replacement parts are available, Yes – Spare Parts List are available.
6. Short Circuit Withstand:
- **Have the switches been tested for the Rated Short Circuit Current?** 4000A – Yes, 5000A – Testing Underway
7. Corona and radio-influence test voltage limits:
- **Have the disconnect switches been tested under dark conditions at the voltage levels specified in IEEE Std C37.30.1-2022?** 4000A – Yes, 5000A – Testing Complete
8. Nameplate:
- **Can the nameplate be visible from ground level?** Nameplates are provided for each phase and one extra to be mounted at ground level.

765kV Disconnect Switch Overview

1. History and Experience
 - a. **History of making products to support 765kV projects** – Producing 765kV switches for over 57 years
 - b. **# of years manufacturing 765kV products** – 57 Years
 - c. **What is your current technical expertise on 765kV?** – Pascor Atlantic are EHV Leaders in the industry with over 600 phases shipped and nearly 300 phase currently in backlog.
 - d. **Explain the unique characteristics of your products (distinguishing features)** – Independent Pole Operation still toggles in the open and close. Variable Speed motor operator keeps blade in constant control throughout the operation cycle. Field proven design for over 57 years.
2. Sourcing a Product
 - a. **Product options, and what is the best option?** – Pascor Atlantic offers both Vertical Break and Double End Break Designs

- b. **Do you have an off-the-shelf solution based on your product offerings?** – Pascor Atlantic Provides a complete package, Switch, Structure, Insulators and Motor Operator.
 - c. **How much of your product is unique to each customer?** – We can provide complete package or adapt our switch to your structure.
 - d. **Testing requirements and capabilities** – Tested in accordance with IEEE C37.30.1-2022 Standard. On-going testing for 5000 amp rating.
 - e. **Manufacturing location options and cost impacts (is there more than one facility producing 765kV products?)** – We have one facility located in Bland, Va.
3. Technical Questions from the team
- a. **How soon could you provide cut sheets, specifications, approval drawings** – Cut sheets are attached, specification is attached and Approval drawings will go out 4 weeks after receipt of PO
 - b. **Could you provide a timeline from the time a PO is cut** – Approval drawings are issued 4 weeks after receipt of PO, Final/Record drawings are issued 2 weeks after receipt of approved drawings.
 - c. **Who would I work with to develop technical specifications** – Specification can be provided.



Pascor Atlantic – 254 Industry Drive – Bland, Va. – 276-688-3328 – pascoratlantic.com