

Product Guide 2019



OVERHEAD DISTRIBUTION SWITCHGEAR & RECLOSERS

Our selection of distribution reclosers and overhead switchgear meet 15.5kV to 38kV system rating requirements (800A continuous current, 12.kA rms symmetrical interrupting) for direct pole, padmount and substation applications. Their flexible designs include options for manual and remote operation, as well as integration with distribution automation and automatic transfer control solutions. Our reclosers and overhead switches are electronically controlled vacuum fault interrupter switchgear, making them more reliable for voltage switching and protection.

The Viper®-S, Viper®-ST and Viper®-SP come with a dead tank design that reduces interruptions from wildlife interferences and provides added safety for the operators with the modules being at ground potential.

Viper-ST Independent Pole Operation Recloser

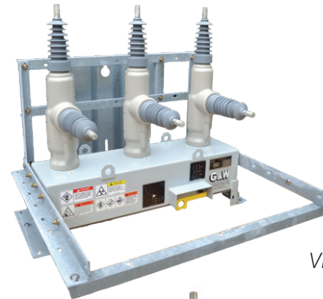
Our Viper-ST dielectric independent pole-operated recloser offers reliable, maintenance-free performance for overcurrent protection, with flexibility to isolate single or two faulted phases on three phase circuits, improving reliability further in the process.



Viper-ST

Viper-S Three Phase Recloser

Our Viper-S mechanically ganged three phase recloser combines electronically controlled vacuum fault interrupters with the maintenance benefits of a solid dielectric insulated device.



Viper-S

Viper-SP Single Phase Recloser

Our Viper-SP single phase recloser paired with the SEL-351RS Kestrel offers a variety of configurations and site-ready solutions with the maintenance-free benefits of a solid dielectric insulated device.



Viper-SP

Diamondback Loadbreak Switch

The Diamondback switch is a solid dielectric, three-phase load break switch for overhead applications and combines the time-proven reliability of vacuum bottles with the maintenance-free benefits of a solid dielectric insulated device.



Diamondback

UNDERGROUND SWITCHGEAR & CABINETS

Our submersible underground switchgear are available with solid dielectric or SF6 gas insulation for padmount or vault applications and engineered for optimum reliability and operator safety. They are designed and tested to IEEE standards.

Our series of Metal clad, low voltage and Ring Main Unit switchgear is available for primary or secondary protection and is designed and tested to IEC standards.

SF6 Switchgear

Our line of SF6 load break switchgear include overhead linear puffer switchgear designed for operation on distribution systems rated up to 38kV, 900A continuous current and 40kA asymmetrical momentary current. Our best-in-class puffer switchgear are ideal for mission critical applications.



SF6 Padmount

Trident Solid Dielectric Switchgear

Our solid dielectric loadbreak switchgear are designed to provide maintenance-free enhanced switching capability, safe sequencing and operation. Solid dielectric insulation makes the switchgear suitable for even the most challenging environments.



Solid Dielectric Vault

POWER GRID AUTOMATION

Choose from a range of pre-engineered or custom designed automation solutions – from basic automatic transfer schemes to advanced Fault Location, Isolation and Service Restoration (FLISR) configurations.

Fault Isolation and Restoration

Our preconfigured fault detection location, isolation and service restoration (FDIR) systems incorporate our selection of fully distributed intelligence and peer-to-peer communications and local controllers.

Master Station Solution

Leveraging a DMS/SCADA system coupled with intelligent switchgear and reclosers, our master station solution provides a full complement of power distribution automation capabilities.

Voltage Loss Reconfiguration/Automatic Transfer

Whether you need a standalone automatic transfer switch or an advanced multiple-source system reconfiguration package, our flexible solutions will help you cut outage times and costs while improving reliability.

Remote Terminal Units

You can rely on our multipurpose RTUs to maintain critical communication between your master station and remote devices.



LaZER® Power Grid Automation

CURRENT LIMITING SYSTEM PROTECTION

G&W Electric offers a wide variety of commutating current limiters offering overcurrent protection of systems rated 15.5kV through 38kV. Different devices are available depending on the overcurrent interrupting and current limitation requirements. Typical applications include power transformer protection, system upgrades, reactor bypass, cogeneration and closing bus ties. Current limiters consist of: CLiP®, CLiP®-LV, Power Assisted Fuses, High Current Limiters and Encapsulated fuses.

CLiP

A current limiter with a unique ability to provide high, continuous current ratings with current limitation and ultra-high speed operation for single or three phase protection.

CLiP-LV

A unique overcurrent protection device that interrupts potentially damaging fault current and is UL certified.

Power Assisted Fuses (PAF)

These fuses are rated 2.8–38kV and continuous currents up to 600A. They are easy to install and maintain for indoor or outdoor applications.

High Current Limiters (HCL)

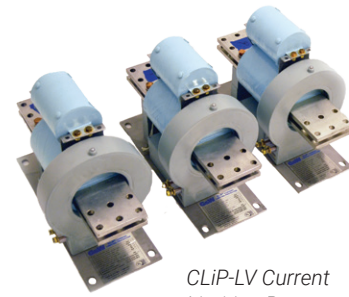
A backup fuse intended to be applied in series with lower rated interrupters.

Encapsulated Current Limiting Fuse

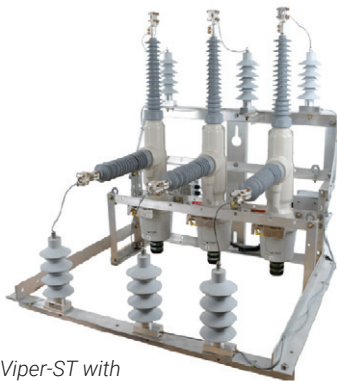
A one-piece rugged construction epoxy encapsulated fuse that is extremely durable and can be easily installed and removed.



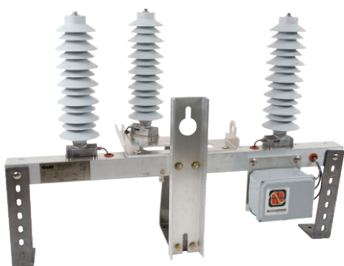
CLiP Current Limiting Protector



CLiP-LV Current Limiting Protector



Viper-ST with Accusense® Voltage Sensor



Standalone Accusense Sensor

High-Accuracy Current & Voltage Sensors

Our high-accuracy sensors are a metering-class solution that enables users to collect the critical voltage and current data needed for optimizing grid power delivery and reliability. This sensor technology can be utilized as a compact, lightweight alternative to traditional metering class transformers.

The capacitive voltage sensing technology is temperature compensated and has an unparalleled frequency measurement bandwidth suitable to monitor high frequencies with high voltage sensing accuracy in distributed energy resource (DER) applications. The Rogowski current sensing technology used has a wide dynamic range that does not saturate like traditional inductive technologies. Rogowski sensors are intrinsically safe with no danger with an open secondary circuit.

G&W Electric's high-accuracy current and voltage sensors been tested to meet the 0.5 metering classification per IEC 60044-7:1999, IEC 60044-8:1999 standards.

The high accuracy Accusense voltage sensing solution can be integrated with Viper reclosers and serve a dual purpose protection device and metering point.

DISTRIBUTION & TRANSMISSION CABLE ACCESSORIES

G&W Electric provides one of the most complete and reliable lines of terminations and joints available today for extruded solid dielectric and oil-impregnated paper power cables.

Transmission Cable Accessories

G&W offers a variety of transmission cable accessories for extruded dielectric cable systems. Cabling is available for outdoor applications through 230kV and includes porcelain or composite insulator options and premolded designs.

Accessories for Extruded Solid Dielectric Cable

G&W offers a variety of transmission cable accessories for extruded solid dielectric cable systems.

Python® outdoor PAT style transmission terminations are designed for extruded solid dielectric cable for system voltages from 60kV to 345kV.

Python® SSC style dry type transmission terminations for gas-insulated substation and oil-immersed equipment applications are designed for extruded solid dielectric cables for system voltages from 110kV to 345kV.

Python® premolded rubber joints (PMJ) are available for extruded solid dielectric cable per IEEE and IEC ratings for system voltages from 60kV to 345kV.

Accessories for Oil-Impregnated Paper Cables

G&W offers a variety of transmission cable accessories for low and high pressure, fluid- and gas-filled, self-contained and pipe-type cable systems. Cable terminations are designed for outdoor applications per IEEE ratings and equipment-mount applications per IEEE and IEC ratings up to 345kV.

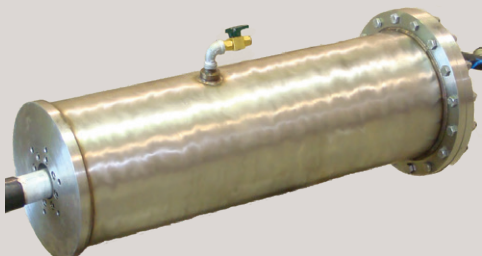
Cable joints are designed per IEEE and IEC ratings and available for voltages up to 345kV.

Transition Joints between Extruded Solid Dielectric and Oil-Impregnated Paper Cables

G&W offers transitional products between two cable technologies designed per IEEE and IEC ratings up to 161kV.



Distribution Cable Joints



TJNT35 Distribution Joint

Distribution Cable Accessories

Distribution Cable Terminations

G&W Electric offers a wide variety of distribution cable terminations through 46kV. Cable terminations are supplied with high grade, wet process porcelain insulators for superior electrical performance, tracking resistance and mechanical strength. Field-assembled designs offer tape stress cone kits and interchangeable aerial lugs, hoodnut connector assemblies, porcelains, bodies and cable entrance fittings to accept any construction of extruded dielectric, paper insulated or armored cable. A variety of pre-assembled designs offer built-in stress relief and insulation permitting ease of installation and adaptability to a wide range of cable types and sizes.

Distribution Splices & Joints

G&W Electric offers a variety of distribution cable splices and cable joints for a wide variety of cable types through 35kV. The product line extends from simple tape splice kits to innovative epoxy molded designs providing elbow interfaces for quick disconnect and reconnect of the cable sections. Cable joints can be installed within underground vaults or direct buried.

Contact us today

708.388.5010 or info@gwelec.com

G&W Electric

Engineered to order. Built to last.

Since 1905, G&W Electric has been a leading provider of innovative power distribution solutions, including the latest in load and fault interrupting switchgear, reclosers, system protection equipment, power grid automation and transmission and distribution cable terminations, joints and other cable accessories. G&W is headquartered in Bolingbrook, Illinois, U.S.A., with manufacturing facilities and sales support in more than 100 countries, including China, Mexico, Canada, UAE, India, Singapore, Brazil and Italy. We help our customers meet their challenges and gain a competitive edge through a suite of advanced products and technical services.

gwelec.com