

# Improve Your Grid Reliability



Viper<sup>®</sup>-ST / Viper<sup>®</sup>-S Reclosers integrated with  
GE Multilin<sup>®</sup> R650 Control:  
Designed for LaZer<sup>®</sup> Distribution Automation Solutions

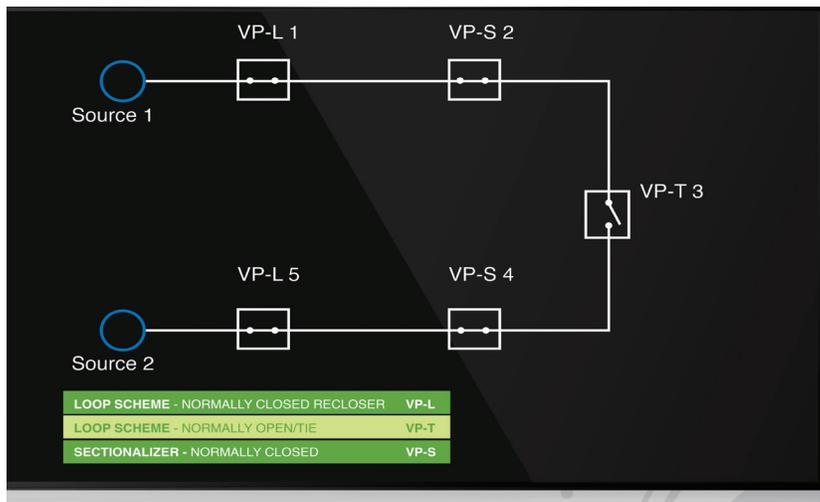


# Strengthen and future-proof your grid

The best-in-class Viper-ST and Viper-S reclosers with GE R650 controls deliver reliability, quality and faster installation. With customizable, key automation capabilities already in place, our LaZER Distribution Automation solution significantly lowers customers' Total Life Cycle costs. When using a Viper-ST to further enhance reliability performance, single-phase reclosing capabilities with the Viper-ST (fault location, isolation and service restoration, or FLISR) can be enabled at any time.

## Non-Communicating Automatic Sectionalizing/ Reclosing and Reconfiguration Open Loop Scheme

This program provides FLISR. The reclosers and the breaker are coordinated to enable fault interruption on the segment closest to the fault. Other DA schemes, such as Automatic Transfer or Closed Loop, are also available.



### + GE MULTILIN R650 CONTROL

Experience high performance and seamless connection to automation software



A Proactive,  
Value-Add  
Approach

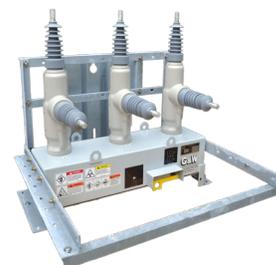
### LAZER AUTOMATION SOFTWARE

Customize your system and capture real-time information critical to future smart grid operations



### VIPER-ST RECLOSER

Enjoy automation-ready flexibility with single or three-phase tripping



### VIPER-S RECLOSER

Experience automation-ready flexibility with mechanically ganged three-phase tripping

## Get more benefits with a combined solution

### VIPER-ST / VIPER-S SOLID-DIELECTRIC INDEPENDENT POLE-OPERATED RECLOSERS

|                     |  |
|---------------------|--|
| Viper-ST / Viper-S: | Pole top, padmount and substation applications   |
| Viper-ST / Viper-S: | Maintenance-free, solid-dielectric, dead-tank technology                                 |
| Viper-ST / Viper-S: | Field-changeable silicone insulators (the best hydrophobic material)                     |
| Viper-ST / Viper-S: | Ratings through 38kV, 800A and 12.5kA ( <i>1000A, 16kA are optional on some models</i> ) |
| Viper-ST / Viper-S: | Six low-energy analog voltage sensors  |
| Viper-ST:           | Single 32-pin control cable; easy interface with test equipment                          |
| Viper-S:            | Single 14-pin control interface; easy interface with test equipment                      |
| Viper-ST:           | Single or three-phase tripping/single or three-phase lockout                             |
| Viper-S:            | Mechanically ganged three-phase trip and lockout   |

### GE MULTILIN R650 CONTROL

Protection and control – up to 32 programmable digital inputs; 16 digital outputs; configurable PLC logic to IEC 61131-3

Advanced real-time monitoring, metering and measurement

Enhanced user interface display with 16x40 graphics or standard 4x20 characters

Communication protocols: DNP 3.0, IEC 61850, IEC 60870-5-101, 103 & 104, etc.

Optional fiber optic 100BaseFX Ethernet, single or redundant (PRP/HSR/RSTP)

Optional conformal coating for harsh environments

Extends the use of GE relays outside the substation for existing GE customers

Links with G&W LaZer Distribution Automation software

#### Increased reliability and quality

- Minimize outage time with single-phase tripping with the Viper-ST
- Integrate remote feeders into DMS/OMS/SCADA

#### Ease of use

- Optimal integration flexibility via open standards protocols
- Faster, easier installation with site-ready design
- Enhanced human-machine interface

#### Value

- Improve SAIDI, SAIFI, CAIFI for a more reliable network
- Fully customizable and automation ready
- Comprehensive protection with continuous monitoring and event reporting
- Advanced logic engine for customized control schemes
- Viper-ST driving electronics integral to the R650 device

Ask us how our Viper-ST and Viper-S with GE Multilin R650 Control package designed for LaZer Distribution Automation can be customized to meet your specific application needs.



CUSTOM  
ENGINEERING



CUSTOM  
PROGRAMMING



FACTORY  
ACCEPTANCE TESTING



TRAINING  
AND EDUCATION



24-HR TECHNICAL  
SUPPORT



SITE ACCEPTANCE  
TESTING/  
COMMISSIONING



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 and distribution automation. G&W is headquartered in Bolingbrook, IL, with manufacturing facilities and sales support in more than 100 countries including China, Mexico, Canada, Dubai, India, Singapore and Brazil. We help our customers meet their challenges and gain a competitive edge through a suite of advanced products and technical services.

Contact us today

708.388.5010 or [info@gwelec.com](mailto:info@gwelec.com)

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