

# Multilin™ DGPR

## Integrated Solution for Retrofit of the Multilin DGP Generator Protection Relay

GE's Multilin DGPR is a fully integrated retrofit solution for the legacy Multilin Generator Protection DGP Relay. The Multilin DGPR solution is a one-to-one replacement of a DGP relay with a G60-based retrofit unit. The Multilin DGPR is well suited for large hydro, gas and steam turbine generators, providing state-of-the-art, modern protection and control functionality for these critical power system assets.

### Application: Power Plant Retrofits and Upgrades

The Multilin DGPR is a secure, state-of-the-art solution for retrofit and modernization of existing protection and control systems for large hydro, gas or steam-based generating assets.

### Key Benefits

- Secure, high-speed protection elements for complete generator protection, compliant with IEEE® C37.102
- Complete IEC® 61850 Process Bus solution providing resource optimization and minimizing total protection and control life cycle costs
- Advanced fault and disturbance recording, including internal relay operating signals replacing external recording devices
- Robust network security enabling Critical Infrastructure Protection through user command logging, and dual permission access control
- Advanced automation capabilities for providing customized protection and control
- Phasor measurement unit with synchronized phasor information according to IEEE C37.118 standard
- Ethernet Global Data (EGD) eases integration with Multilin control systems
- Reduced relay-to-relay wiring and associated installation costs through high-speed inter-relay communications
- Ambient temperature monitoring and alarms
- Graphical Logic Designer and Logic Monitor to simplify designing and testing procedures via the Multilin EnerVista™ UR Engineer
- Service and update notification toolset ensures device documents and software are up-to-date via EnerVista Launchpad
- EnerVista Integrator providing easy integration of data in the G60 into new or existing monitoring and control systems



### Fully Integrated Modular Solution

- Predesigned, modular solution for ease of installation and testing in an existing Generator Protection Panel (GPP)
- Reduced operations and maintenance cost by using the modular panel design and multi-functional components
- Factory tested and verified to help expedite field testing and commissioning

### Scalability and Flexibility

- Provides the protection and control functions required for large generators in one relay platform
- Supplied pre-wired to match existing terminal blocks in the GPP

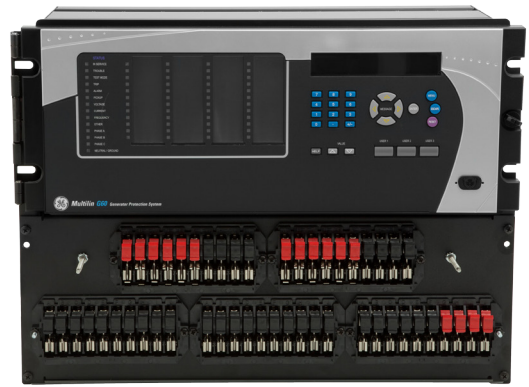
### Functionality and Reliability

- Based on GE's advanced G60 relay with embedded functionality and interoperability, reducing the need for multiple devices to achieve full DGP functionality
- Supports multiple communication protocols to interface with modern and legacy communication systems and devices
- Built-in compliance to cyber security standards and regulatory requirements

### Total Quality Solution

- Designed, assembled, wired and tested under high quality assurance and quality control standards
- Each DGPR Solution is provided with complete documentation with as-built drawings, wiring tables for ease of site installation and testing

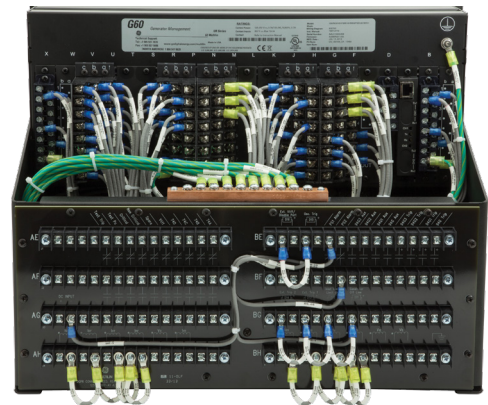




Front View

### The Multilin DGRP solution features:

- Multilin G60 Advanced Generator Protection Relay (G60-N04-HKH-F8M-H6H-M8M-P6B-U6C-WRH)
- 5 FT switches for trip, CT and DC circuit isolation
- Gauge 11 metal plate to mount G60 relay and test switches
- Integrated wiring to connect relay through the FT test switches and back of the module
- Self-contained wiring between G60, FT switches and terminal blocks at the back of the module, to connect existing GPP wiring
- Installation documentation to assist with mounting in a GPP panel
- Internal wiring and interconnection diagram
- G60 relay settings, based on DGP settings (optional)



Rear View

### Order Code (Standard Module)\*:

| DGPR         | ** | ** | Description  |
|--------------|----|----|--|
| LPSO         | D0 |    | LPSO retrofit not required. DGP retrofit only.   |
|              | D1 |    | LPSO retrofit included. Provided with a 3 RU plate to cover for LPSO.                  |
| G60 Settings |    | S0 | G60 relay settings not provided.   |
|              |    | S1 | G60 relay settings required. Settings converted from original DGP settings (optional). |

\* For a custom design, please contact your local sales representative

Digital Energy  
650 Markland St.  
Markham, ON  
Canada L6C 0M1

Toll Free (NA Only): 1-800-547-8629  
Tel: 905-927-7070  
Fax: 905-927-5098

[gedigitalenergy@ge.com](mailto:gedigitalenergy@ge.com)

### GEDigitalEnergy.com

IEEE is a registered trademark of the Institute of Electrical Electronics Engineers, Inc.  
IEC is a registered trademark of Commission Electrotechnique Internationale.

GE, the GE monogram, Multilin, and EnerVista are trademarks of the General Electric Company.

GE reserves the right to make changes to specifications of products described at any time without notice and without obligation to notify any person of such changes.  
Copyright 2013, General Electric Company. All Rights Reserved.



imagination at work