



## Overview

The SGC-250N Synchronous Generator Controller is a prepackaged solution for applications that require single or dual DECS-250N Digital Excitation Control Systems. With the DECS-250N's enhanced capabilities and negative forcing, precise generator voltage control can be obtained. An optional integrated BEI-11g Generator Protection System provides generator current differential protection, monitoring, and metering with multiple generator protection schemes.

## Features

- Negative Forcing
- 20-amp, six-thyristor rectifier bridge
- Single and dual redundant DECS-250N option
- Dual control power provisions
- BESTCOMSPlus® PC software
- Preprogrammed logic
- Autotracking between modes of operation
- Autotracking between DECS-250N units for dual controller systems
- Real time monitoring
- Sequence of events recording
- Automatic tuning
- Extensive communication available
- USB
- CAN bus communication
- Modbus® RS-485 RTU
- Ethernet 100Base-T (Modbus TCP)
- Reactive load sharing over communication
- Field flashing provisions
- Provisions for sync check
- Optional automatic synchronizer
- Optional integrated power system stabilizer (PSS)
- Optional BEI-11g Generator Protection System available on pan chassis/mounting plate

## Benefits

- Negative forcing provides exceptional responses to system transients and load disturbances.
- The DECS-250N and optional BEI-11g used on the SGC-250N are programmed using BESTlogic™ Plus within BESTCOMSPlus software. With its intuitive interface, BESTlogicPlus provides the flexibility to create custom logic schemes to meet specific requirements.
- An automatic tuning feature is integrated into the DECS-250N to reduce commissioning time and provide excellent system performance.
- Real time monitoring and event recording capture occurrences within the system for live data analysis.
- Prewired for easy installation into new or existing enclosures.
- Dual control power provides redundancy to prevent undesired shutdown.
- Current transformer (CT) shorting provision for added safety.
- The SGC-250N is designed, built, and tested to optimize performance and reliability.

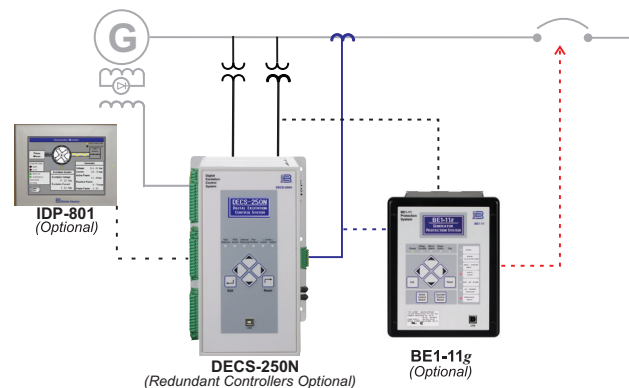


Figure 1 - Typical SGC-250N Connection Diagram featuring the Optional IDP-801 Interactive Display Panel

