



Generator Control Unit (GCU)

CG200 SERIES

- Analog
- Automatic starter cutout
- Field weakening control of engine start
- Ground fault protection
- Voltage regulation accuracy to + 0.4/0.7 VDC
- Voltage regulation range of 26 to 30 VDC
- Protective functions
- Equalizer circuit for dual starter generator installations
- Meets B4/04 lightning transient requirements of RTCA/DO-160
- Fully qualified to RTCA/DO-160 environments
- Dual over voltage protection circuits
- Modular design for future capability expansion



CG300 SERIES

- Dual microprocessor
- Software qualified to RTCA/DO-178, level B
- Dual magnetic-latching relays (or trip relays)
 - Individual trip of generator field and line contactor
- Built-in test upon battery power-up
 - Exercises and tests trip relays and over voltage protection
- Communications port for NC maintenance computer
- Maintenance connector for access to fault logs and data records in non-volatile memory
- Shunt-field start control (field weakening)
- Start terminate sequence energizes field to terminate start current and prior to opening start contactor
- No programmable or complex hardware devices
- Protective functions implemented in hardware
- Broken wire detection of the following inputs: power ground, signal ground, bus sense, current sense, point-of-regulation, tachometer input, generator field, contactor driven outputs
- Built in test: field-driver transistor, contactor-drive transistors
- Proactive trip on broken POR wire before over voltage develops
- Proactive trip on shorted field-driver transistor before overvoltage develops
- Dual over voltage protection circuits



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