



## Engine Generator Controls

Current Power engine generator control systems are designed to control the speed and voltage on low voltage engine generator sets. The controls feature a Woodward digital controller with three-phase current and voltage monitoring, diagnostics, control, and protection functionality.

The generator controls allow for parallel engine generators to be synchronized and to share load. They can also be configured to allow functionality as an emergency or standby generator as well as operating in parallel with a mains (utility) supply. Each standard generator control package comes in a 91" high X 24" wide X 32" deep enclosure. Multiple generators control packages may be configured in parallel onto a common main AC bus, with standard sizes up to 5250Aac.

Current Power can provide engine generator controls as part of a packaged solution with any or all of the following products:

- Electrical building (power house)
- Distribution switchgear
- Variable Frequency Drives (VFDs)
- PLC based automation system
- Control consoles

Standard generator control options are available, but Current Power can provide detailed engineering necessary to meet your specific application.

For further information, contact [sales@currentpsi.com](mailto:sales@currentpsi.com).



### Standard Features

- Circuit breaker with solid state trip unit, trip coil, and closing coil
- Woodward digital controller with parameter based operation and analog and digital I/O
- Door mounted HMI digital display and keypad
- Overcurrent, reverse power, under/overvoltage, and under/over frequency protection
- Automatic synchronization of generators to the bus
- Automatic load sharing of real and reactive power
- Potential and current transformers
- Voltage regulator sized to the engine exciter
- Circuit breaker status indicating lamps
- Generator running indicating lamp
- Tin-plated copper buswork
- Free standing, welded frame cubicles with a light grey powder coat finish
- Tin-plated copper ground bar
- Dedicated engineering support during design and fabrication
- Documentation package including engineered drawings and product data sheets

### Optional Features

- Emergency or standby operation
- Mains parallel operation
- Manual synchronization
- Differential current protection
- Engine RTD monitoring
- Transducers for providing electrical data to an external system
- Advanced speed and voltage regulators
- Additional switchboard metering and indicating lights
- 24VDC battery system for cold start operation
- Anti-condensation space heaters
- Lockout relays
- 3rd party design approval and/or certification
- Remote control panels
- Installation and commissioning services
- Training classes on operation and maintenance