

# EEG7000 DIGITAL ENHANCED ELECTRONIC CONTROLLER

## On-Demand Battery Charging

The EEG7000 Digital Enhanced Electronic Controller is a fantastic option for engineers working hard to create a greener world, including hybrid energy solutions. Hybrid solutions that balance engine and battery sources require accurate controls to achieve maximum efficiency. The EEG7000 provides that control for cleaner solutions to power with lower emissions, reduced diesel fuel costs, and improved function and performance.

## Runs Like a Dream: The EEG7000 in Action

Our customer, a major Australian-based power and energy solution company, relies on the EEG7000 in a number of its solutions, including a 4kw 48V DC generator used for precision lithium battery charging. They convert the mechanical control of the engine to electronic using the EEG7000 controller and a custom-built actuator to manage the speed of the engine, from the warmup phase before load is applied, then to main RPM, which controls voltage to charge the batteries. They maintain voltage at 0.1 volts, which is very precise.

Using a local laptop and the GACConfig Tool, they set charge voltage, current and engine protections and extensively



test load to ensure the CAT C0.5 two Cylinder diesel engine executes perfectly. The client raves: “The EEG7000 and software runs like a dream; we use this governor on all our CAT systems for mining and telecom applications.”

The EEG7000 provides a cleaner solution to power. There is no diesel engine running continuously for light and power; instead, the batteries sip from the engine and store power, shutting down the engine once the batteries are charged, and restarting when a charge threshold is reached. The result? Incredible precision and a reduced carbon footprint.

## Why GAC?

We are a leading provider of innovative engine control products worldwide. As a veteran-owned and -operated family business, our dedication and focus on our customers’ needs has shaped GAC into a vertically integrated company with complete design, development and manufacturing capabilities.

Scan to learn more about the EEG7000.

