



Northwest UAV

A GLOBAL COMPANY

PROPULSION & PAYLOAD
INTEGRATION SPECIALISTS

600-WATT GENERATOR CONTROL UNIT FOR PERMANENT MAGNET ALTERNATORS



With the NWUAV Generator Control Unit (GCU), mix and match the voltage and power requirements for your system! The design is modular and scalable to your needs.

The GCU manages the variable voltage and frequency inputs from a permanent magnet alternator system, and outputs stable DC power. The system is available for two power outputs – one at 12 volts and one is configurable between 28 volts to 52 volts.

Our Commercial Off-The-Shelf (COTS) GCU module is designed to fit the needs for most Small Unmanned Aerial Vehicles (SUAVs). It supplies up to 600-Watts of usable DC power at 49 volts.

SYSTEM FEATURES:

- Lightweight 830 grams (board only 276 grams)
- Small footprint for it's power at:
5.31 in/135mm (W) x 4.94 in/125mm (L) x 2.00 in/51mm (H)
- EMI shielded
- EMC compatible
- Designed to meet IPC 67
- Shock and vibration resistant
- Customizable output voltages
- Operating temperatures -40°F to 122°F (-40°C to 55°C)
- Firmware is field upgradable
- Real time clock

ELECTRICAL SPECIFICATIONS:

- Combined power 600-Watts*
- 49 Volts at 10 Amp standard
- Dedicated and protected 12 volt line to the motor
- Voltage droop is 5% no-load to full-load
- CAN bus reporting of output voltages and currents
- CAN bus input-capable to record engine data
- CAN bus compliant to ISO 11898-1
- Onboard SD card with 10kHz record rate
- 3-Phase input voltage of 120 volts to 400 volts



* Cooling air may be required based upon integration and application.



REV D AS9100 | ISO9001 Certified

11160 SW Durham Lane, Suite 1 | McMinnville, OR 97128
Office: 503.434.6845 | Fax: 503.217.6080 | www.nwuav.com

Where Precision and Reliability Soar!



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