



Northwest UAV

A GLOBAL COMPANY

PROPULSION & PAYLOAD
INTEGRATION SPECIALISTS

280-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 power outputs at 21V or 28V, 12V and 6V. The system can be trimmed by $\pm 10\%$ trimmable outputs in any power and voltage combination!

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 280-Watts of usable DC power at 21V or 28V, 12V, and 6V.

SYSTEM FEATURES:

- Lightweight 240 grams
- Small footprint for it's power at:
2.92 in/74mm (W) x 4.23 in/107mm (L) x 1.50 in/38mm (H)
- EMI shielded
- EMC compatible
- Designed to meet IPC 67
- Shock and vibration resistant
- Operating temperatures -40°F to 122°F (-40°C to 55°C)
- MIL grade connectors

ELECTRICAL SPECIFICATIONS:

- Combined power 280-Watts*
- 21V or 28V at 10 Amp maximum
- 12V at 10 Amp maximum
- 6V at 3 Amp maximum
- Voltage droop is 1V no-load to full-load
- CAN bus reporting of output voltages and currents, total power, and board temp
- CAN bus compliant to ISO 11898-1
- 3-Phase input voltage of 150V - 400V

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



REV D AS9100 | ISO9001 Certified

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Where Precision and Reliability Soar!



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