ENERGYOR TECHNOLOGIES INC. FUEL CELL SYSTEMS

Your UAV Fuel Cell Experts

EPAC
EO-300-APU

Fuel Cell Auxiliary Power Unit (APU) for Extended Operation

EnergyOr Technologies Inc.

EnergyOr Technologies Inc. is a fuel cell systems company with a strategy to focus on premium niche markets where our state-of-the-art fuel cell technology can be applied.

Our objective is to provide customers with simple to use, "turn-key" fuel cell systems. From engineering analysis and detailed component design, to systems integration and qualification testing, we strive for excellence at each and every stage.

We produce lightweight and compact PEM fuel cell systems suitable for many premium markets including, but not limited to, unmanned aerial vehicles (UAVs), auxiliary power units (APUs) and custom system configurations.

The EO-300-APU is a fourth generation fuel cell auxiliary power unit developed by EnergyOr and is ready for your mission critical power requirements.

APU Power
That Won't Let You Down

Energy & Power Anywhere, Continuously

The EO-300-APU is an advanced fuel cell powered Auxiliary Power Unit (APU) designed specifically for field applications and ideal for supplying power to ground control stations during Unmanned Aerial Vehicle (UAV) operations. Based on the same fuel cell system architecture as our innovative EPOD Fuel Cell UAV Propulsion Systems, the EO-300-APU is virtually silent and has a minimal heat signature. The EO-300-APU can also provide back-up electrical power in the event of a power failure or where there is no electrical grid.

This portable power unit is fueled by compressed hydrogen available in rugged, lightweight DOT certified cylinders which are safe and easy to install. These canisters are integrated into the APU enclosure and can be quickly replaced while the APU is online, guaranteeing continuous, uninterrupted power for critical missions.

EO-300-APU

EnergyOr Technologies is offering advanced fuel cell / battery hybrid Auxiliary Power Units (APUs), specifically designed for the rugged requirements of military systems and optimized to supply the necessary power for UAV ground control stations.

Typically, noisy gasoline powered generators are used in the field to supply the necessary power for UAV missions. Not only are these units impractical considering their noise and heat signature, but they are extremely heavy and difficult to transport.

The EO-300-APU is portable, lightweight and perfectly suited for operation with our EPOD Fuel Cell UAV Propulsion Systems. Hydrogen canisters can be interchanged to power the EO-300-APU which reduces the logistics of carrying several fuel sources.

Other Product Configurations

Depending on your particular power and energy requirements, EnergyOr Technologies can provide a custom configuration to meet your specific needs. Our fuel cell / battery hybrid APU systems are highly configurable due to their modular design and can be quickly adapted. Options include various system and fuel packaging layouts, DC and AC power outputs, power connections, etc. The APU components can also be integrated directly into your system if required.

Other Products

EnergyOr also offers other fuel cell products and accessories including the EPOD line of unmanned aerial vehicle (UAV) fuel cell propulsion systems and EDAQ line of fuel cell data acquisition systems. Please refer to our product brochures online for more information or contact EnergyOr directly.

EO-300-APU System Features

- Rugged, compact and lightweight design
- Quiet with low heat signature
- High efficiency with very low parasitic losses
- Hot-swappable fuel cylinders for uninterrupted power
- Environmentally clean , zero emission
- Simple user interface
- Hybrid battery for peak power demands
- Ideal for in-field battery charging
- Stable output power for sensitive electronics

Technical Specifications*		EO-300-APU
System Performance	Rated Net Output Power	300 W
	Peak Net Output Power	350 W
	Output Voltage	120 VAC (60 Hz)
	Operating Time (Full Fuel Condition)	Up to 8 hours
	Design Lifetime	2000 hours
Fuel	Fuel Type	Compressed Hydrogen
	Fuel Grade	99.99% purity
Environment	Ambient Temperature	2 to 40°C**
	Design Altitude above sea level	1500 m
Physical	Total Mass (including hydrogen supply)	13.5 kg
	Dimensions (L x W x H)	43 x 27.5 x 25 cm

* All specifications are subject to change at any time, without notice
** Cold weather kit available for temperatures down to -20°C

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