

Tactical Edge Hybrid Power - 10kW



HYBRID POWER GENERATION

HIGH DENSITY ENERGY STORAGE

RAPID ROI >> FUEL, MAINTENANCE, AND LOGISTICS

REDUCES GENERATOR FUEL USAGE

SOLAR POWER COLLECTION

- ▶ Hybrid 120/208 VAC 3P
 - ▶ Scalable for 120V, 240V & 208V 3P Output
 - ▶ 10KVA Surge Capable
 - ▶ Solar Energy Collection for Improved Efficiency
 - ▶ Extended Silent Watch Capability (8-24 Hours)
 - ▶ Generator Load Balancing
 - ▶ Deploys in < 20 Minutes
 - ▶ Interfaces 3 & 5kW TQG, 5 & 10kW AMMPS*
 - ▶ No Special Handling for Shipping (UN/DOT Class 9 Tested)
 - ▶ Emergency DC Input in case of Generator Failure
 - ▶ Design Spiral from Combat Proven GREENS
- *UEC Autostart Kit



The 10kW Power Management System optimizes power from generators, renewable resources, and batteries to produce clean continuous AC and DC power for remote electronic systems. The system is modular, rugged and scalable for deployment wherever power is needed. The system collects up to 9kW of solar energy for added efficiency. The system is modular, man portable or trailer mountable. It uses the GREENS HEDBS which have been proven safe, and UN/DOT Class 9 tested for commercial shipment.



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Expeditionary forces experience high variability in load requirements over time. Deployed generators often operate at sub-optimal loads. The Hybrid Energy Generation System optimizes each type of power input to output conversion to provide stable conditioned 28VDC, 120VAC, and 208VAC. The system accepts and regulates power from a scalable variety of renewable energy sources, battery arrays, and auxiliary AC and DC sources while smartly managing the power available from each source to minimize fuel consumption.



General Specifications:

- Energy Collection, Management, Storage, and Distribution System
- 1P 120V/3P 208V 60Hz 5KW Continuous, 10KW Surge
- 28VDC @ 40 Amps Continuous
- Light Tactical Trailer (LTT) Mounted
- Core 10KW Hybrid Elements:
 - Power Distribution Unit – Primary DC/AC Inverter
 - Master Control & Human-Machine Interface (HMI)
 - 5KW - 10KW AMMPS Interface with Autostart
 - 2KW DC Auxiliary Input
 - 5KW DC Battery Array Input
 - 10KW AC Output (1P 120V, 3P 208V)
 - 1kW DC Output
 - 5kW Solar Charger
 - 5KW or 10KW AMMPS Generator
 - Auto Start Interface
 - Energy Storage Array– Primary AC/DC Conversion
 - Six (6) 2600W-Hr High Energy Density Battery Systems (HEDBS)
 - Five (5) Integrated Solar Panel Case Assemblies (ISPCA/AISPCA)