

# Tactical Edge Hybrid Power 3.5kW



**HYBRID POWER GENERATION**

**HIGH DENSITY ENERGY STORAGE**

**RAPID ROI >> FUEL, MAINTENANCE AND LOGISTICS**

**REDUCES GENERATOR FUEL USAGE**

**SOLAR POWER COLLECTION**

- ▶ Hybrid 120V 1P 30A Output & 28VDC 1KW Output
  - ▶ Scalable for 120V, 240V & 208V 3P Output
  - ▶ 6KVA Surge Capable
  - ▶ Solar Energy Collection for Improved Efficiency
  - ▶ Extended Silent Watch Capability (8-24 Hours)
  - ▶ Modular Design – 4 Man Portable
  - ▶ Deploys in < 20 Minutes
  - ▶ Interfaces 3 & 5KW TQG, 5KW AMMPS\*, 1 & 2KW MPG\*
  - ▶ 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 3.5kW 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 3kW of solar energy for added efficiency. The system is light-weight and man portable. It uses the GREENS HEDBS which have been proven safe, and UN/DOT Class 9 tested for commercial shipment.



# Tactical Edge Hybrid Power 3.5kW

The Power Management System includes a generator auto-start controller, high-efficiency DC-AC inverter with generator assist, high density lithium battery array, MPPT solar input, and solar collectors. During operation, excess power from the generator and solar energy are stored in the battery array. When the batteries are fully charged the generator is turned off and the stored energy is inverted to power the AC/DC load. The hybrid system design allows the generator to operate at peak level of efficiency, reducing the fuel requirements. The power management system can be scaled to meet power requirements of 3.5KVA-5KVA at 120V/240V single phase or 7.5KVA at 208V three phase.



Power Applications for Generated Power



## Standard Configuration

Quantity	Description	Part Number	Dimensions	Weight
1	Controller	0955A01	21.0" x 26.6" x 14.2"	130 lbs
8	Battery (HEDBS)	0754A12	16.5" x 14.0" x 7.0"	40 lbs
1	External Cable Kit	0955A02	24.8" x 19.4" x 13.9"	50 lbs

Power – 2500W Continuous  
 Inputs – (AC) 80-150 VAC, 54-66Hz, 30 amps (max)  
 (DC) 28 VDC, 2kW\*  
 (Solar) 2kW  
 Outputs – (AC) 120 VAC, 60Hz, 30Amp  
 (AC) 3.5 KVA Continuous at 25°C, (2.5 KVA over operating temperature range)  
 (AC) 6 KVA Surge Capability  
 Outputs – (DC) 24 VDC, 1 kW (max)  
 Storage – 8x 25.6 VDC Nominal (battery)

## General Specifications

Environmental – Temp Range -4°F to 131°F (-20°C to 55°C)  
 Corrosion Resistance, MIL-STD-810F, Method 509.4  
 Shock Resistance, MIL-STD-810F, Method 516.5, Proc IV  
 Rain Resistance, MIL-STD-810F, Method 506.4  
 Battery Options –  
 High Energy Lithium (HEDBS) 51A-h (1300W-hr)  
 Sealed Lead Acid (LATBS) 55A-hr

\*Emergency Use Only