

# Rugged Edge Renewable Power 1000W



- SOLAR POWER COLLECTION**
- HYBRID POWER GENERATION**
- HIGH DENSITY ENERGY STORAGE**
- RAPID ROI >> FUEL, MAINTENANCE AND LOGISTICS**
- RELIABLE AND COMBAT PROVEN**

- ▶ **Man Transportable**
- ▶ **Requires No Fuel**
- ▶ **Operates Silently**
- ▶ **Rugged & Reliable**
- ▶ **No Maintenance**
- ▶ **Setup in < 20 minutes**
- ▶ **Return on Investment = Months**
- ▶ **No Special Handling for Shipping (UN/DOT Class 9 Tested)**
- ▶ **Modular and Scalable (1 to 5 KW)**
- ▶ **Customized as Needed**



Rugged Edge Renewable Power 1000W Solution saves fuel, money, and reduces the need for generators. This is the first viable solution to replace traditional fuel-fired generators. The system collects solar energy and converts it into useable power. Excess solar energy is stored in the array of high energy density battery systems (HEDBS) for use when solar energy is insufficient. The system is light-weight and easily transportable. The HEDBS is safe, and has been approved as UN/DOT Class 9 for commercial air shipment.



# Rugged Edge Renewable Power 1000W

One system will provide up to 1kW of power, and up to five systems can be paralleled together to provide 5 kW of power. No formal operator training is required. System deployment time is quick – 20 Minutes by an untrained user. The system can be used as a completely renewable solution, or can be used in a hybrid configuration with a generator. If used as a hybrid solution, the controller will auto-start the generator if necessary to recharge the batteries, and will run the generator at peak efficiency.



Power Applications for Generated Power

## Standard Configuration

Quantity	Description	Part Number	Dimensions	Weight
1	Controller	0974A08	21.2" x 16.0" x 8.3"	51 lbs
4	Battery (HEDBS)	0974A12	16.5" x 14.0" x 7.0"	40 lbs
1	External Cable Kit (1 of 2)	0974A09	24.8" x 19.4" x 13.9"	77 lbs
	External Cable Kit (2 of 2)	0974A09	24.8" x 19.4" x 13.9"	50 lbs
1	Power Distribution Kit	0974A11	24.8" x 19.4" x 13.9"	52 lbs
<b>Options</b>	Autostart	0920A01	19.8" x 15.8" x 7.4"	38 lbs
	Output Parallel Adapter	0974A07	16.0" x 13.0" x 6.9"	17 lbs
	Lead Acid Battery (LATBS)	0974A06	20.9" x 12.7" x 12.8"	110 lbs



## General Specifications

Power – 1000W Continuous	Efficiency – Renewable Energy (MPPT) 92-97%
Inputs – 4x 36-72VDC, 500W Renewable Energy	– AC Input 85-90%
1x 85-265 VAC, 47-63 Hz, 1200W AC	– DC Input 96-98%
1x 18-32 VDC, 1000W DC	Environmental: Temp Range -4°F to 131°F (-20°C to 55°C)
Outputs – 2x 22-30 VDC, 1000W	CEI/IEC 600068-2-56, Damp heat, Steady State
Storage – 4x 28 VDC Nominal, 50A Input, 500W Output (Charge)	SAE J1211, Environmental Practices for Electronic Equipment Design
Battery Options –	CEI/IEC 600068-2-34/36 Random Vibration
High Energy Lithium (HEBS) 51A-h (1300W-hr)	JIS D 1601 Vibration, Impact and Water Resistance
Sealed Lead Acid (LATBS) 55A-hr	