

# GROUND RENEWABLE EXPEDITIONARY ENERGY NETWORK SYSTEM (GREENS)

TAMCN: A03757G

I.D: 12115B

NSN: 6117-01-618-5094

## Functional Description

The GREENS is a modular man-portable solar energy conversion and management system that harvests solar energy using photovoltaic solar panels. Distribution of energy is through a Power Distribution Kit (PDK) that uses an intelligent management system and stores excess energy in four High Energy Density Batteries (HEDB). The use of an Output Paralleling Adapter (OPA) and five GREENS will increase nominal output from 300 to 1,500W or peak output from 1,000 to 5,000W. The GREENS can exceed the 300W nominal output limit and continue to operate for a 24-hour period with no service interruptions when connected to the One Man Portable Generator (1MPG) with an Extended Run Tank (XRT) or auxiliary AC or DC inputs. There is one QUADCON for every two GREENS.

## Technical Description

### Information

Manufacturer: UEC Electronics  
Model: 0754A20-001

### Power

#### **Input**

Solar Panel: 4 AISPCA @ 40-70 VDC  
Vehicle: 18 to 32 VDC  
AC: 85-220 VAC @ 50/60Hz

### Temperatures

Operating: -4°F to +131°F  
Storage: -59°F to +160°F

#### **Output**

DC: 22-30 VDC  
Regulated DC 28 VDC

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