



ELECTRONICS

The GREENS Controller is a power management system that efficiently uses multiple power sources to provide 1000W continuous of clean 24Vdc power.

The GREENS Controller accepts power from renewable energy devices and AC & DC power sources. Available power is distributed to the load and surplus power is stored in external battery arrays for future requirements. Additionally, the GREENS Controller prioritizes multiple power sources to make the most efficient use of available energy and minimize the use of fossil fuels.

When part of a complete GREENS (4x HEDBS, 8x Solar Panels) the Controller is designed to provide 300 watts of uninterrupted power, 24 hours a day.

PRODUCT SPECIFICATION

GREENS CONTROLLER



GENERAL SPECIFICATIONS

Part Number:

0754A08

Inputs:

- (4) Renewable Energy
36-72Vdc, 500W
- (1) AC
115/230Vac, 47-63Hz, 1000W
- (1) DC
20-36Vdc, 1000W

Outputs:

- (2) DC
22-30Vdc, 1000W Continuous

Battery Backup:

- (4) 24Vdc (22-28V), 500W

Human Machine Interface:

- 11 resettable circuit breaker/switches
- LCD display
- 4 tactile push button user interface

Usability/Maintainability:

- Onscreen troubleshooting
- Placard setup guide

Battery Interface:

- High Energy Density Battery System (HEDBS)
- Sealed Lead Acid (LATBS)
- AGM Batteries

Efficiency:

- Renewable Energy (MPPT): 90-95%
- AC: 85-90%
- DC: 96-98%

Environmental:

- Corrosion Resistant as per MIL-STD-810F, Method 509.4
- Sand and Dust resistant as per MIL-STD-810F, Method 510.4
- Shock resistant as per MIL-STD-810F, Method 516.5, procedure IV
- Immersion (non-operating) resistant as per MIL-STD-810F, Method 512.4
- Rain resistant as per MIL-STD-810F, Method 506.4
- Operational temperature range -4°F to 131°F (-20°C to 55°C)

Mechanical:

- Dimensions: 8.3" x 21.2" x 16"
- Weight: 51 pounds
- Enclosure: Polypropylene chassis, Aluminum guard frame