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AP Products 8355

AP Products Parallax Power Supply 8355 DC Converter/Charger User Manual

1. Introduction and Overview

This manual provides essential information for the safe and efficient operation of your AP Products Parallax Power Supply 8355 DC Converter/Charger. The 8300 Series is designed to deliver high output amperages for 30 amp shore services. The 8355 model is a 30 amp power center featuring a three-stage 55 amp converter charger. It is manufactured to operate on 120Vac 15 amp branch circuits, allowing sufficient power for other 120Vac devices. The unit is constructed with a durable steel enclosure and includes an 11-position fuse block with blown fuse indicators. This unit can be upgraded with the Parallax 4400Tau module to optimize battery charging.



Image 1.1: The AP Products Parallax Power Supply 8355 DC Converter/Charger unit. This image displays the main product, a rectangular metal enclosure with various ports and indicators.

2. Safety Information

Read all instructions carefully before installation and operation. Failure to follow these instructions may result in electric shock, fire, or serious injury. Keep this manual for future reference.

- **Professional Installation Recommended:** Due to the electrical nature of this product, installation by a qualified electrician or certified technician is strongly recommended.
- **Power Disconnection:** Always disconnect all power sources (AC and DC) before installing, servicing, or performing any maintenance on the unit.
- **Ventilation:** Ensure adequate ventilation around the unit to prevent overheating. Do not block ventilation openings.
- **Moisture Exposure:** Do not expose the unit to rain, moisture, or excessive humidity. Operate in a dry environment.
- **Proper Wiring:** Use appropriate wire gauges and connectors as specified by local electrical codes and the unit's

requirements.

- **Fuse Replacement:** Replace fuses only with the same type and rating to prevent damage and maintain safety.
- **Battery Safety:** When working with batteries, wear appropriate personal protective equipment (PPE) such as eye protection and gloves. Ensure proper battery ventilation.

3. Product Features

- **High Output Amperage:** Designed for 30 amp shore services with a 55 amp converter charger.
- **Three-Stage Charging:** Features a three-stage battery charging system for optimal battery health and longevity.
- **AC Branch Circuit Compatibility:** Operates efficiently on 120Vac 15 amp branch circuits.
- **Durable Construction:** Housed in a robust steel enclosure for enhanced durability.
- **Integrated Fuse Block:** Includes an 11-position fuse block with convenient blown fuse indicators.
- **Upgrade Capability:** Compatible with the Parallax 4400Tau module for advanced battery charging technology.

4. Setup and Installation

The installation of the Parallax Power Supply 8355 involves electrical connections and should be performed by individuals with appropriate knowledge and experience. Refer to the wiring diagrams and local electrical codes.

1. **Mounting:** Securely mount the power center in a dry, well-ventilated area, ensuring access for wiring and maintenance.
2. **AC Input Wiring:** Connect the 120Vac input from your shore power or generator to the designated AC input terminals. Ensure proper grounding.
3. **DC Output Wiring:** Connect the DC output to your RV's 12V distribution panel. Ensure correct polarity for all connections.
4. **Battery Connection:** Connect the battery charging leads to your house battery bank, observing correct polarity.
5. **Circuit Breakers and Fuses:** Install appropriate AC circuit breakers and DC fuses in the designated slots. The unit features an 11-position fuse block with blown fuse indicators.
6. **Initial Power-Up:** After all connections are secure and verified, apply AC power to the unit. Observe for proper operation and check all connected 12V devices.

5. Operating Instructions

The Parallax Power Supply 8355 operates automatically once properly installed and powered. It converts 120Vac shore power into 12Vdc power for your RV's DC appliances and simultaneously charges your house batteries.

- **Automatic Operation:** When connected to 120Vac power, the unit will automatically supply 12Vdc power and begin charging the connected batteries.
- **Three-Stage Charging:** The integrated three-stage charger optimizes battery charging by cycling through bulk, absorption, and float stages to prevent overcharging and extend battery life.
- **Blown Fuse Indicators:** The 11-position fuse block includes LED indicators that illuminate when a fuse is blown, simplifying troubleshooting.
- **Power Management:** The unit is designed to manage power distribution efficiently, prioritizing DC loads while maintaining battery charge.

6. Maintenance

Regular maintenance ensures the longevity and reliable performance of your power supply.

- **Periodic Inspection:** Annually inspect all wiring connections for tightness and corrosion.
- **Cleanliness:** Keep the unit clean and free from dust and debris. Use a dry cloth for cleaning. Do not use liquid cleaners.
- **Ventilation:** Ensure that the ventilation openings are clear and unobstructed to allow for proper airflow.
- **Fuse Check:** Periodically check the fuses, especially if a 12V circuit is not functioning. Replace blown fuses with the correct type and rating.
- **Battery Maintenance:** Follow your battery manufacturer's recommendations for maintenance, including checking electrolyte levels for flooded batteries.

7. Troubleshooting

This section provides basic troubleshooting steps for common issues. For complex problems, consult a qualified technician.

Problem	Possible Cause	Solution
No 12V DC power	No AC input; Blown DC fuse; Loose wiring	Check AC shore power connection; Inspect and replace blown fuses; Verify all DC wiring connections.
Batteries not charging	No AC input; Blown battery fuse; Faulty battery connection; Battery fault	Ensure AC power is present; Check battery fuses; Verify battery connections; Test battery condition.
Blown fuse indicator lit	Overload on circuit; Short circuit in appliance/wiring	Identify and correct the cause of the overload/short circuit; Replace the blown fuse with one of the same rating.
Unit is overheating	Blocked ventilation; Excessive load	Ensure clear airflow around the unit; Reduce the electrical load if possible.

8. Specifications

Specification	Detail
Brand	AP Products
Model	8355
Product Dimensions (D x W x H)	11.5" x 15" x 13.38"
Item Weight	18.1 pounds
Number of Items	1
UPC / GTIN	894714001404

Specification	Detail
Manufacturer	Parallax Power Supply
Included Components	Parallax Power Components 8355 55A DC Converter

9. What's in the Box

Upon unpacking, ensure all components are present and undamaged:

- Parallax Power Components 8355 55A DC Converter/Charger Unit

10. Warranty and Support

For any issues experienced within 30 days of receipt, please contact the seller or manufacturer directly for support and warranty claims. It is recommended to retain your proof of purchase.



Image 10.1: The official logo for AP Products.

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