

Part Synergy 1516-628009001

Part Synergy Marine Isolation Transformer

MODEL 1516-628009001 USER MANUAL

1. Introduction

This manual provides essential information for the safe installation, operation, and maintenance of your Part Synergy Marine Isolation Transformer, Model 1516-628009001. This device is designed to provide precision voltage regulation and comprehensive protection from common shore power problems for marine vessels. Please read this manual thoroughly before installation and use to ensure optimal performance and safety.

2. Safety Information

WARNING: Electrical shock hazard. Installation and servicing must be performed by qualified personnel only. Disconnect all power sources before working on the unit.

- Always ensure the shore power is disconnected before making any electrical connections to the transformer.
- Verify that the input voltage range (167 to 270 Volt) is compatible with your shore power supply.
- Ensure proper grounding of the unit as per local marine electrical codes.
- Do not operate the transformer if it shows signs of damage or malfunction.
- Keep the unit away from flammable materials and ensure adequate ventilation.

3. Product Overview

The Part Synergy Marine Isolation Transformer is a robust unit designed for marine environments, offering 12 kVA power capacity. It features an auto-restart function and Rev Stud Terminals for enhanced durability and ease of connection.



Figure 1: Front view of the Part Synergy Marine Isolation Transformer. The image displays the white casing of the transformer, a digital display panel, and a prominent ON/OFF switch with a warning label above it. Vents are visible on the side panels.

Key Features:

- **Voltage Regulation:** Provides precision voltage regulation to the vessel.
- **Shore Power Protection:** Delivers complete protection from common shore power problems.
- **Auto-Restart:** Automatically restarts operation after power interruptions.
- **Durable Terminals:** Equipped with Rev Stud Terminals for longer life and secure connections.
- **Marine-Grade Durability:** Constructed for resilience in marine environments.

4. Setup and Installation

Proper installation is crucial for the safe and effective operation of the isolation transformer. Consult a certified marine electrician for installation.

4.1 Mounting

1. Select a dry, well-ventilated location within the vessel, protected from direct water exposure.
2. Ensure sufficient clearance around the unit for airflow and maintenance access.
3. Securely mount the transformer using appropriate marine-grade fasteners to a sturdy surface.

4.2 Electrical Connections

All wiring must comply with ABYC (American Boat and Yacht Council) standards and local electrical codes.

1. **Shore Power Input:** Connect the shore power cable to the designated input terminals on the transformer. Ensure correct polarity (Line, Neutral, Ground).
2. **Vessel Output:** Connect the vessel's main AC distribution panel to the output terminals of the transformer.
3. **Grounding:** Establish a robust ground connection from the transformer chassis to the vessel's main grounding system.

4. Double-check all connections for tightness and correct wiring before applying power.

5. Operating Instructions

Once installed and wired correctly, operating the transformer is straightforward.

- Power On:** Ensure all connections are secure. Connect the shore power cable to the dock pedestal.
- Locate the ON/OFF switch on the front of the transformer (refer to Figure 1). Flip the switch to the 'ON' position.
- The digital display will illuminate, showing operational status and voltage readings.
- Auto-Restart Function:** In the event of a temporary shore power interruption, the transformer is designed to automatically re-establish power to the vessel once the shore power supply stabilizes.
- Power Off:** To disconnect power, first switch the transformer to the 'OFF' position, then disconnect the shore power cable from the dock.

6. Maintenance

Regular maintenance ensures the longevity and reliable operation of your isolation transformer.

- Periodic Inspection:** Annually inspect all electrical connections for tightness and signs of corrosion.
- Cleaning:** Keep the exterior of the unit clean and free of dust and debris. Use a dry cloth; do not use liquid cleaners.
- Ventilation:** Ensure that the ventilation openings are not obstructed to prevent overheating.
- Environmental Check:** Regularly check the installation environment for excessive moisture or signs of water ingress.

7. Troubleshooting

This section addresses common issues you might encounter. For problems not listed here, contact qualified service personnel.

Problem	Possible Cause	Solution
No power to vessel	Shore power disconnected or tripped breaker; Transformer OFF; Faulty wiring.	Check shore power connection and dock breaker. Ensure transformer switch is ON. Inspect wiring for loose connections.
Transformer display not lit	No input power; Internal fault.	Verify shore power is active. If power is present and display remains off, contact service.
Overheating	Insufficient ventilation; Overload.	Ensure vents are clear. Reduce electrical load on the vessel.
Intermittent power	Unstable shore power; Loose connections.	Check shore power quality. Inspect and tighten all electrical connections.

8. Specifications

Attribute	Detail
Model	1516 - 628009001
Brand	Part Synergy

Attribute	Detail
Manufacturer	ASEA POWER PART
Power Capacity	12 kVA
Input Voltage Range	167 to 270 Volt
Dimensions (L x D x H)	13.1 Inch x 18.7 Inch x 12 Inch
Special Features	Auto-Restart, Eco-Friendly & Sustainable, Low Maintenance Design, Marine-Grade Durability
Terminal Type	Rev Stud Terminals
Fit Type	Universal Fit

9. Warranty and Support

For warranty information, technical support, or service inquiries, please refer to the contact information provided at the point of purchase or visit the official Part Synergy website. Keep your purchase receipt as proof of purchase for warranty claims.

For further assistance, you may contact the manufacturer, ASEA POWER PART, or your authorized dealer.

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