

## Southwire 41301

# Southwire 41301 30A Reverse Polarity Transfer Switch User Manual

Model: 41301

## 1. INTRODUCTION

This manual provides essential information for the safe and effective installation, operation, and maintenance of your Southwire 41301 30A Reverse Polarity Transfer Switch. Please read all instructions carefully before proceeding with installation or use. Retain this manual for future reference.

## 2. SAFETY INFORMATION

**WARNING: More than one live circuit may be present. Disconnect all sources of supply before servicing this unit to prevent electric shock or injury.**

**CAUTION: Do not remove the cover with voltage present. Do not mount the unit with the cover face down (parallel to earth) as this may compromise its intended function and safety.**

This product may contain materials cautioned by California Proposition 65. Always follow local electrical codes and safety regulations during installation and operation.

## 3. PRODUCT OVERVIEW

The Southwire 41301 is an automatic transfer switch designed for use in optional standby systems. It provides reverse polarity protection and automatically switches between two power sources, typically generator and shore power, ensuring a continuous and safe electrical supply.



A black rectangular automatic transfer switch with a white label detailing product information, warnings, and specifications. It features input and output terminals and indicator lights for reverse polarity and open ground.

Key features include:

- Automatic power source switching
- Reverse polarity protection
- Designed for 120V, 30A, 60 Hz systems
- Suitable for optional standby systems

## 4. INSTALLATION

Installation should only be performed by a qualified electrician in accordance with all applicable national and local electrical codes.

### 4.1 Wiring Requirements

- Use copper wire only.
- Utilize 75°C wire, 300V, No. 10 AWG supply conductors.
- Ensure continuous load current does not exceed 100 percent of the switch rating (30A).
- A suitable strain relief for conductors must be provided at the installation point.

## 4.2 Mounting

Mount the transfer switch securely in an upright position. Avoid mounting with the cover facing downwards (parallel to the earth) to ensure proper operation and safety.

## 5. SETUP

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The Southwire 41301 is an automatic transfer switch designed for seamless operation in optional standby systems. Once correctly wired and mounted, the unit will automatically manage the power transfer between your primary (shore) power and secondary (generator) power sources.

The delay time for generator to shore transfer is automatic, ensuring a smooth transition without manual intervention.

## 6. OPERATION

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The transfer switch operates automatically. When shore power is available, the unit will connect to it. If shore power is lost and a generator is connected and producing power, the switch will automatically transfer the load to the generator after a brief delay.

Indicator lights on the unit provide status information:

- **RVS POL (Reverse Polarity):** Illuminates if a reverse polarity condition is detected, indicating a wiring fault that needs immediate attention.
- **OPN GND (Open Ground):** Illuminates if an open ground condition is detected, indicating a potential safety hazard that requires immediate inspection.

Always address any illuminated indicator lights promptly by consulting a qualified electrician.

## 7. MAINTENANCE

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The Southwire 41301 transfer switch is designed for minimal maintenance. However, periodic inspection is recommended to ensure continued safe and reliable operation.

- **Annual Inspection:** Have a qualified electrician inspect the unit annually.
- **Check Connections:** Ensure all electrical connections are tight and free from corrosion.
- **Cleanliness:** Keep the exterior of the unit clean and free from dust and debris. Do not use harsh chemicals or solvents.
- **Environmental Conditions:** Ensure the operating environment remains within specified temperature and humidity ranges.

Always disconnect all power sources before performing any inspection or maintenance.

## 8. TROUBLESHOOTING

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If you experience issues with your transfer switch, consider the following basic troubleshooting steps. For complex issues, always consult a qualified electrician.

- **No Power Transfer:** Verify that both shore power and generator power sources are active and providing correct voltage. Check all circuit breakers.
- **Indicator Lights On:** If the RVS POL or OPN GND lights are illuminated, immediately disconnect all power and have a qualified electrician inspect the wiring for faults.
- **Intermittent Operation:** Check for loose connections at the transfer switch and at the power sources. Ensure the unit is not exposed to excessive moisture or extreme temperatures.

Do not attempt to repair the unit yourself. Refer all servicing to authorized personnel.

## 9. SPECIFICATIONS

Specification	Detail
Model Number	41301
Brand	Southwire
Current Rating	30 Amps
Voltage	120V
Frequency	60 Hz
Operation Mode	Automatic
Wattage	3600 Watts
Connector Type	2 Pin
Terminal Type	Screw
Circuit Type	1-way
Actuator Type	Push Button
Contact Material	Copper
Item Dimensions (L x W x H)	1 x 1 x 1 inches
Item Weight	2.77 pounds
UPC	032886731631

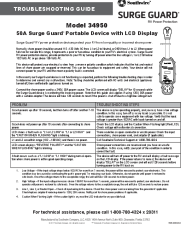


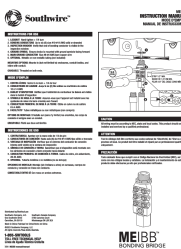


## 10. WARRANTY AND SUPPORT

Southwire products are manufactured to high-quality standards and are backed by a manufacturer's warranty. For specific warranty details, please refer to the documentation included with your purchase or visit the official Southwire website.

For technical support, product information, or warranty claims, please contact Southwire directly:

- **Website:** [southwire.com](https://southwire.com)
- **Manufacturer:** Southwire Company, LLC, Largo, Florida

## Related Documents - 41301

	<p><a href="#">Southwire Surge Guard 50A Model 34950 Troubleshooting Guide</a></p> <p>A comprehensive troubleshooting guide for the Southwire Surge Guard 50A Portable Device with LCD Display (Model 34950), covering common issues, error codes, and solutions for RV power protection.</p>
	<p><a href="#">Southwire Elite 300 Series Portable Power Station: Operating and Maintenance Instructions</a></p> <p>Comprehensive guide to operating, charging, and maintaining the Southwire Elite 300 Series Portable Power Station (Model 53251). Includes technical specifications, display features, charging methods, powering devices, troubleshooting, safety instructions, and warranty information.</p>
	<p><a href="#">Southwire 40032S GFCI Receptacle Tester with LCD - User Manual &amp; Specifications</a></p> <p>Comprehensive guide for the Southwire 40032S GFCI Receptacle Tester with LCD, covering operating instructions, wiring tests, GFCI tests, specifications, maintenance, and warranty information.</p>
	<p><a href="#">Southwire MEIBB Bonding Bridge Installation and Use Instructions</a></p> <p>Comprehensive guide for the Southwire MEIBB Bonding Bridge, detailing installation steps, mounting options, safety precautions, and compliance with electrical codes. Includes technical specifications and contact information.</p>
	<p><a href="#">Southwire 40022S GFCI Receptacle Tester: Operating Instructions and Safety Guide</a></p> <p>Comprehensive operating instructions, wiring diagnostic guide, GFCI testing procedures, maintenance, specifications, safety warnings, and warranty information for the Southwire 40022S GFCI Receptacle Tester.</p>
	<p><a href="#">Southwire Elite 500 Series Portable Power Station: Operating and Maintenance Manual</a></p> <p>This manual provides operating and maintenance instructions for the Southwire Elite 500 Series Portable Power Station (Model 53252), detailing its features, specifications, charging methods, device powering capabilities, troubleshooting, safety guidelines, and warranty information.</p>



[Southwire 41301 Automatic Transfer Switch 30A-120V - Product Overview](#)

Detailed information on the Southwire 41301 Automatic Transfer Switch, featuring 30A-120V operation, reverse polarity protection, open ground protection, and generator dominant configuration for reliable power source management.

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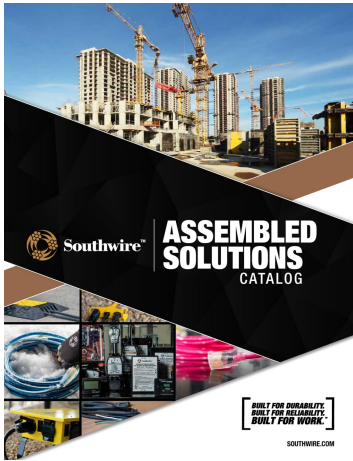
AUTOMATIC TRANSFER SWITCH 41301 30A 120V Inverter SupplyThe model automatic transfer switch from Southwire® is designed with oversized dual 40A rated contactors that provides reverse polarity and open2102 RV Protection Cutsheet WEBInvertersupply media data 2102 WEB srsltid AfmBOorn L S7 bu8y7kNcXUAFShXm9s6APDrouZfM5iXjURb7BhIWSB SupplyAUTOMATIC openThe WEB2102 bu8y7kNcXUAFShXm9s6APDrouZfM5iXjURb7BhIWSBinvertersupply AfmBOoo9pLfPaluWJDjI5XAaR 1waF7b7bbtZD169n6pMHNFY5W 1L9 1L9invertersupply AfmBOoqiWAAOtXjzOeshqfRVD4PbEahVqr3zyzyQQlo5kg9rxIvoCITd AfmBOoqiWAAOtXjzOeshqfRVD4PbEahVqr3zyzyQQlo5kg9rxIvoCITdinvertersupply AfmBOOpQth6JWkkqoV963 Hqiz95cgqxsNwa7YG4Gc6w1XOJDrNFfGw9 Hqiz95cgqxsNwa7YG4Gc6w1XOJDrNFfGw9invertersupply AfmBOooKekzYQ

mtqOVwIY7odxBpVc62iYfxygJK6kOjgJ mYcVudCQ5 ||| ||| AUTOMATIC TRANSFER SWITCH 41301 30A-120V The 30A model 41301 automatic transfer switch from Southwire is designed with oversized dual 40A rated contactors that provides reverse polarity and open ground protection when on shore power. The pr ||| AUTOMATIC TRANSFER SWITCH 41301 30A-120V The 30A model 41301 automatic transfer switch from Southwire is designed with oversized dual 40A rated contactors that provides reverse polarity and open ground protection when on shore power. The pr ||| AUTOMATIC TRANSFER SWITCH 41301 30A-120V The 30A model 41301 automatic transfer switch from Southwire is designed with oversized dual 40A rated contactors that provides reverse polarity and open ground protection when on shore power. The pr ||| AUTOMATIC TRANSFER SWITCH 41301 30A-120V The 30A model 41301 automatic transfer switch from Southwire is designed with oversized dual 40A rated contactors that provides reverse polarity and open ground protection when on shore power. The pr AUTOMATIC TRANSFER SWITCH 41301 30A-120V The 30A model 41301 automatic transfer switch from Southwire is designed with oversized dual 40A rated contactors that provides reverse polarity and open ground protection when on shore power. The proprietary electrical interlock design prevents both contact...

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