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## maXpeedingrods DES668

# maXpeedingrods Automatic Transfer Switch (ATS) DES668 User Manual

Model: DES668

## 1. INTRODUCTION

The maXpeedingrods Automatic Transfer Switch (ATS) DES668 is designed to provide a reliable and safe solution for managing power supply between your main utility grid and a backup generator. This unit automatically detects power outages and seamlessly switches to generator power, ensuring continuous electricity for your home or business. It is compatible with maXpeedingrods MXR6000 PRO and MXR9000 inverter generators equipped with a 7-pin ATS connector.

This manual provides essential information for the proper installation, operation, and maintenance of your ATS unit. Please read it thoroughly before installation and use.



Image 1.1: maXpeedingrods Automatic Transfer Switch (ATS) banner.

## 2. SAFETY INFORMATION

**WARNING: RISK OF ELECTRICAL SHOCK. DO NOT REMOVE COVER. NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.**

- Always disconnect all power sources before installing or servicing the ATS unit.
- Installation must be performed by a qualified electrician in accordance with all local and national electrical codes.

- Ensure the generator is properly grounded.
- Do not operate the ATS unit if it is damaged.
- Keep children and unauthorized personnel away from the ATS unit and generator during operation.
- The ATS unit is designed for indoor or outdoor installation, but must be protected from direct weather exposure if installed outdoors.

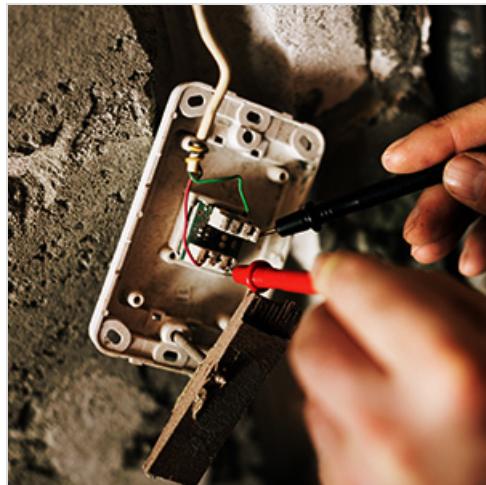


Image 2.1: Always ensure proper electrical safety procedures are followed during installation.

### 3. PACKAGE CONTENTS

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Verify that all items are present in the package:

- maXpeedingrods Automatic Transfer Switch (ATS) Unit
- 7-Pin Connection Cable
- User Manual

# Zubehör



Image 3.1: Contents of the maXpeedingrods ATS package, including the ATS unit, 7-pin cable, and user manual.

## 4. PRODUCT FEATURES

- **Automatic Power Transfer:** Seamlessly switches between utility power and generator power during outages.
- **High Capacity:** Supports generators up to 10,000 W (10 KW/KVA) and 50 Amps.
- **Safety Interlock:** Prevents simultaneous feeding of power from both the utility grid and the generator to your household circuits.
- **Simplified Installation:** Optimized design for easier circuit changeover, suitable for residential, warehouse, and small commercial installations.
- **Multi-Circuit Power:** Allows a single cable to power multiple or all essential electrical circuits in your home.
- **Automatic Generator Control:** Initiates generator start-up upon power failure and shuts it down when utility power is restored.

# Maximale Lastkapazität bis zu 10KW

Die maximale Last hängt von  
der maximalen Leistung des Stromerzeugers ab



Image 4.1: The ATS unit supports a maximum load capacity of up to 10KW, depending on the generator's maximum output.

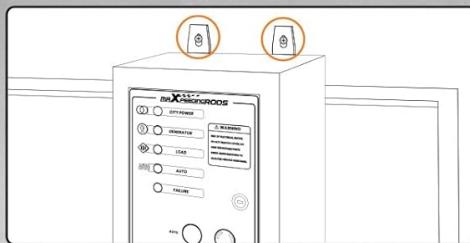
## 5. SETUP AND INSTALLATION

Proper installation is critical for the safe and effective operation of the ATS unit. This process should be carried out by a qualified electrician.

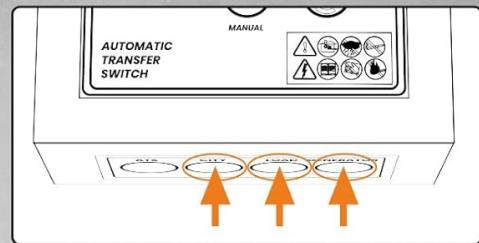
- 1. Mount the ATS Box:** Securely mount the ATS box on an exterior wall or in an appropriate outdoor location, ensuring it is protected from direct weather.
- 2. Connect Terminals:** Route the main utility power, household load, and generator power cables through the designated holes at the bottom of the ATS box. Connect them to the corresponding terminals labeled CITY, LOAD, and GENERATOR.
- 3. Connect Generator Control Cable:** Use the supplied 7-pin white cable to connect the ATS port on the box to the ATS connector on your compatible maXpeedingrods generator (e.g., MXR6000 PRO, MXR9000).
- 4. Select Mode:** Choose between manual or automatic mode on the ATS unit as required for your operational preference.
- 5. Generator Settings:** Configure your generator settings according to the selected mode on the ATS unit.

# Einfache Installation

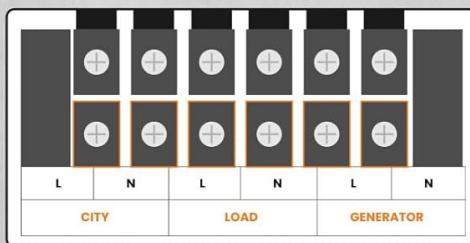
Nur die Kabel anschließen



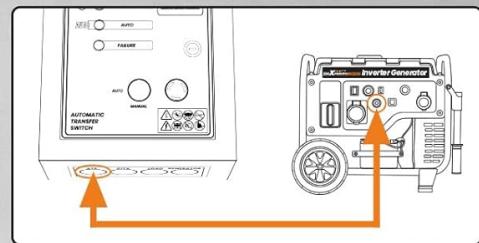
**01** ATS-Kasten an der Außenwand oder im Freien befestigen



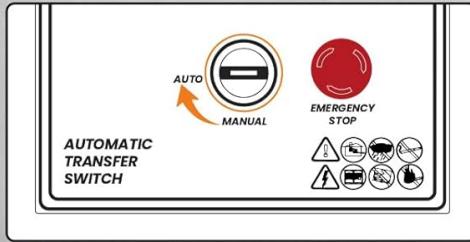
**02** Schließen Sie die Terminals durch die Löcher an der Unterseite des Kastens an



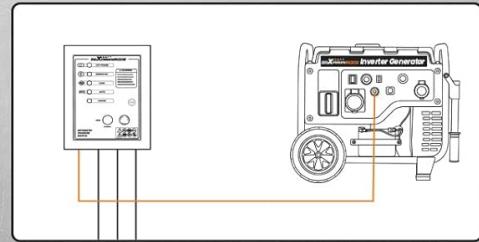
**03** Entspricht jeweils CITY/LOAD/  
GENERATOR



**04** Verbinden Sie den ATS-Anschluss des Kastens mit dem Stromerzeuger über das mitgelieferte weiße Kabel



**05** Wählen Sie je nach Bedarf den manuellen oder automatischen Modus



**06** Einstellung des Stromerzeugers entsprechend dem gewählten Modus

Image 5.1: Step-by-step guide for the simple installation of the ATS unit, primarily involving cable connections.

# Anschluss des Hausstromnetzes

Hilfe mit Stromerzeuger für Ihr Haus



Image 5.2: The ATS unit connected to the household power grid and a generator for backup power.



Image 5.3: An installed ATS unit operating in conjunction with a maXpeedingrods generator.

## 6. OPERATING INSTRUCTIONS

The ATS unit is designed for automatic operation, but also offers a manual override.

### 6.1 Automatic Mode

In automatic mode, the ATS unit continuously monitors the utility power supply. In the event of a power outage:

1. The ATS detects the loss of utility power.
2. After a brief delay (approximately 15 seconds), the ATS sends a start command to the connected generator.
3. The generator attempts to start (up to 5 attempts with 5-second pauses). If the generator fails to start, a fault indicator will illuminate.
4. Once the generator starts, the ATS waits for a warm-up period (approximately 30 seconds) before transferring the household load to generator power.
5. When utility power is restored, the ATS switches the load back to the utility grid and signals the

generator to shut down after a cool-down period (approximately 30 seconds).

## 6.2 Manual Mode

The ATS unit can be manually operated for testing or specific situations. Refer to the control panel for manual switch operation.

## 6.3 Control Panel Overview



Image 6.1: ATS control panel with indicators and switches.

- **CITY POWER Indicator:** Illuminates when utility power is present.
- **GENERATOR Indicator:** Illuminates when the generator is running and providing power.
- **LOAD Indicator:** Illuminates when power is being supplied to the household load.
- **AUTO Mode LED:** Indicates the unit is in automatic transfer mode.
- **FAILURE LED:** Illuminates to signal a fault or failure in operation.
- **Main Switch (Key):** Controls the main power to the ATS unit.
- **Emergency Stop Button:** Immediately stops the generator in an emergency.

- **AUTO/MANUAL Selector:** Switches between automatic and manual operating modes.

# Wie ATS funktioniert

Automatischer Stromfluss vom  
Stromerzeuger während eines Stromausfalls



Image 6.2: Diagram showing the automatic power flow from the generator during a power outage.

# Besser geeignet für Notfälle in der Familie

Wird an den ATS-Verteilerkasten angeschlossen  
und kann an das Hausstromnetz angeschlossen werden

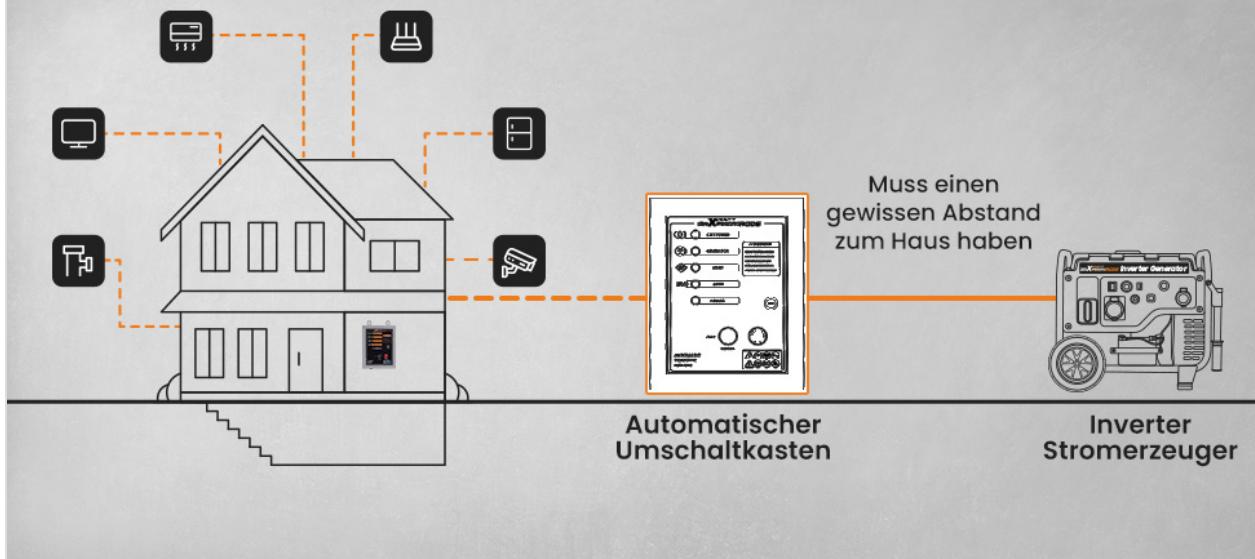


Image 6.3: The ATS unit is well-suited for household emergencies, connecting to the distribution box and the main power grid.  
Ensure the generator is placed at a safe distance from the house.

## 7. MAINTENANCE

The maXpeedingrods ATS DES668 is designed for minimal maintenance. However, regular checks are recommended to ensure optimal performance and safety.

- **Visual Inspection:** Periodically inspect the unit for any signs of physical damage, loose connections, or corrosion.
- **Cleanliness:** Keep the unit clean and free from dust, dirt, and debris. Use a dry cloth for cleaning. Do not use liquids.
- **Professional Inspection:** It is recommended to have a qualified electrician inspect the ATS unit and its connections annually.
- **Generator Maintenance:** Ensure your connected generator is maintained according to its manufacturer's instructions.

## 8. TROUBLESHOOTING

If you encounter issues with your ATS unit, refer to the following basic troubleshooting steps. For complex problems, contact qualified service personnel.

- **No Power Transfer:**
  - Check if the utility power is completely out.
  - Ensure the generator is running and producing power.
  - Verify all connections are secure.
  - Check the ATS unit's main switch is in the ON position.
- **Generator Not Starting:**

- Ensure the generator has fuel and oil.
- Check the generator's battery (if applicable).
- Verify the 7-pin control cable connection between the ATS and the generator.
- Ensure the ATS is in AUTO mode.

- **FAILURE LED On:**

- This indicates a fault. Consult the generator's manual for specific error codes or contact service personnel.

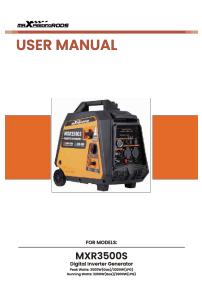
## 9. SPECIFICATIONS

<b>Manufacturer</b>	maXpeedingrods
<b>Model Number</b>	DES668
<b>Product Dimensions (L x W x H)</b>	41 x 33 x 22 cm
<b>Item Weight</b>	6.26 kg
<b>Voltage</b>	230 Volts
<b>Max Power Capacity</b>	10000 Watts (10 KW/KVA)
<b>Max Current</b>	50 Amps
<b>Power Source Type</b>	Fuel Powered (Generator)
<b>Special Features</b>	Automatic Transfer Switch, Multi-Circuit Power, Safety Features
<b>Included Components</b>	Power Cord (7-pin connection cable)

## 10. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the documentation provided with your purchase or visit the official maXpeedingrods website. Keep your proof of purchase for warranty claims.

### Related Documents - DES668

 USER MANUAL FOR MODELS: MXR3500S Digital Inverter Generator www.maxpeedingrods.com	<a href="#">Maxpeedingrods MXR3500S Dual Fuel Inverter Generator User Manual</a> Comprehensive guide for operating, maintaining, and storing the Maxpeedingrods MXR3500S 3500W Dual Fuel Inverter Generator. Includes starting procedures, safety precautions, and troubleshooting tips.
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 <p><b>USER MANUAL</b></p> <p>FOR MODEL: MXR3500 Digital Inverter Generator 3500W AC Power Output</p>	<p><a href="#">MaXpeedingrods MXR3500 3500W Portable Inverter Generator User Manual</a></p> <p>Comprehensive user manual for the MaXpeedingrods MXR3500 3500W portable inverter generator. Covers features, specifications, safety, operation, maintenance, and troubleshooting for home backup, camping, and RV use. EPA compliant.</p>
 <p><b>MAXPEEINGRODS MXR4000 Inverter Generator Owner's Manual</b></p>	<p><a href="#">MAXPEEINGRODS MXR4000 Inverter Generator Owner's Manual</a></p> <p>Comprehensive owner's manual for the MAXPEEINGRODS MXR4000 Inverter Generator, covering safety, operation, maintenance, and troubleshooting.</p>
 <p><b>MAXPEEINGRODS MXR4500i Inverter Generator User Manual and Specifications</b></p>	<p><a href="#">MAXPEEINGRODS MXR4500i Inverter Generator User Manual and Specifications</a></p> <p>Comprehensive user manual and specifications for the MAXPEEINGRODS MXR4500i Inverter Generator, covering operation, maintenance, safety, troubleshooting, and warranty information.</p>
 <p><b>USER MANUAL</b></p> <p>FOR MODEL: MXR3500S Digital Inverter Generator 3500W AC Power Output</p>	<p><a href="#">MaXpeedingRODS MXR3500S Digital Inverter Generator User Manual</a></p> <p>Comprehensive user manual for the MaXpeedingRODS MXR3500S Digital Inverter Generator, covering operation, safety, maintenance, and troubleshooting for gasoline and LPG dual-fuel use. Includes technical specifications and warranty information.</p>
 <p><b>QUICK START INSTRUCTIONS</b></p>	<p><a href="#">maXpeedingrods 3300W Generator Quick Start and Maintenance Guide</a></p> <p>Concise guide for starting and maintaining your maXpeedingrods 3300W portable inverter generator, including essential steps and recommendations for optimal performance and longevity.</p>