Stihl AL 101

STIHL Standard Battery Charger AL 101 User Manual

Model: AL 101 (Part No. 4850-430-2520)

Brand: Stihl

1. Introduction

This manual provides essential information for the safe and efficient operation, maintenance, and troubleshooting of your STIHL Standard Battery Charger AL 101. Please read this manual thoroughly before first use and keep it for future reference.

The STIHL AL 101 is a standard battery charger designed for use with STIHL AP and AK series batteries. It features a power indicator (LED) and passive battery cooling, along with cable storage and wall mounting capability.

2. Safety Information

Always observe the following safety precautions to prevent injury and damage to the charger or battery.

- **Read Instructions:** Read all instructions before using the charger.
- **Indoor Use Only:** This charger is designed for indoor use only. Do not expose to rain or wet conditions.
- **Proper Voltage:** Ensure the power supply voltage matches the charger's specifications (230 V).
- **Ventilation:** Do not block ventilation openings. Ensure adequate airflow around the charger during operation.
- **Compatible Batteries:** Only charge STIHL AP and AK series batteries with this charger. Attempting to charge other battery types may cause personal injury and damage.
- **Damaged Charger/Cable:** Do not operate the charger if the power cord or plug is damaged. If the charger is dropped or damaged, have it inspected by a qualified service technician.
- **Children and Pets:** Keep the charger out of reach of children and pets.
- **Disconnect Power:** Always disconnect the charger from the power outlet before cleaning or when not in use.
- **Commercial Use:** For commercial use, please observe all relevant building regulations.

3. Package Contents

The package includes:

- 1 x STIHL AL 101 Standard Battery Charger (Part No. 4850-430-2520)

4. Product Overview

Familiarize yourself with the components of your STIHL AL 101 charger.



Figure 4.1: Front view of the STIHL AL 101 battery charger, showing the battery slot, power cord, and indicator lights.



Figure 4.2: Side view of the STIHL AL 101 battery charger, highlighting the compact design and integrated cable management.



Figure 4.3: Top-down view of the battery slot on the STIHL AL 101 charger, showing the connection terminals and safety symbols.

Key Components:

- **Battery Slot:** Where the STIHL battery is inserted for charging.
- **Power Indicator (LED):** Illuminates to show charging status.
- **Power Cord:** Connects the charger to a wall outlet.
- **Cable Storage:** Integrated feature for neat storage of the power cord.
- **Wall Mounting Holes:** Allows for permanent installation on a wall.

5. Setup

Follow these steps to set up your STIHL AL 101 battery charger:

1. **Unpack:** Carefully remove the charger from its packaging.
2. **Placement:** Place the charger on a stable, flat, and dry surface. Ensure there is adequate ventilation around the charger. Avoid placing it on soft surfaces that could block airflow.
3. **Wall Mounting (Optional):** If desired, the charger can be mounted to a wall using appropriate screws (not included) through the designated mounting holes. Ensure the mounting surface is strong enough to support the charger and a battery.
4. **Connect to Power:** Plug the charger's power cord into a standard 230 V AC wall outlet. The power indicator LED may briefly illuminate.

6. Operating Instructions

Charging a STIHL battery with the AL 101 charger is a straightforward process:

1. **Insert Battery:** Align the STIHL AP or AK series battery with the battery slot on the charger. Gently slide the battery into the slot until it clicks securely into place.
2. **Charging Indication:** The power indicator (LED) on the charger will illuminate to indicate that charging has begun. The color or blinking pattern of the LED will vary depending on the battery's charge status and the charger's operation (refer to the battery's specific manual for detailed LED indications).
3. **Passive Cooling:** The charger utilizes passive battery cooling during the charging process to maintain optimal battery temperature.
4. **Charging Completion:** Once the battery is fully charged, the LED indicator will change (e.g., turn green or turn off, depending on the battery model). Refer to your battery's manual for exact full-charge indications.
5. **Remove Battery:** Once charging is complete, press the release button (if present on the battery) and slide the battery out of the charger slot.
6. **Disconnect Charger:** For energy saving and safety, unplug the charger from the wall outlet when not in use.

Approximate Charging Times:

Battery Model	Charging Time (approx.)
AK 10	80 minutes
AK 20	150 minutes
AK 30	205 minutes
AP 100	90 minutes
AP 200	165 minutes
AP 300	250 minutes

Note: Charging times are approximate and may vary based on battery condition, ambient temperature, and power supply.

7. Maintenance

Proper maintenance ensures the longevity and safe operation of your charger.

- **Cleaning:** Disconnect the charger from the power supply before cleaning. Use a soft, dry cloth to wipe the exterior of the charger. Do not use abrasive cleaners, solvents, or immerse the charger in water.
- **Inspection:** Regularly inspect the power cord, plug, and charger casing for any signs of damage. If damage is found, do not use the charger and have it repaired by a qualified service technician.
- **Storage:** When not in use, store the charger in a dry, clean place, away from direct sunlight and extreme temperatures. Use the integrated cable storage with the Velcro strap to keep the power cord tidy.

8. Troubleshooting

If you encounter issues with your STIHL AL 101 charger, refer to the table below for common problems and solutions.

Problem	Possible Cause	Solution

Problem	Possible Cause	Solution
Charger LED does not illuminate when plugged in.	No power to the outlet; faulty outlet; damaged power cord/plug; charger malfunction.	Check the power outlet with another device. Ensure the plug is fully inserted. Inspect the power cord for damage. If issues persist, contact customer support.
Battery does not charge.	Battery not properly inserted; battery is faulty; charger malfunction; battery is too hot/cold.	Ensure the battery is fully seated in the slot. Try charging a different, known-good STIHL battery. Allow battery to reach room temperature before charging. If issues persist, contact customer support.
Charging takes longer than expected.	Battery deeply discharged; ambient temperature too low/high; battery nearing end of life.	This can be normal for deeply discharged batteries. Ensure charging is done in a moderate temperature environment. Consider replacing older batteries.

If the problem persists after attempting these solutions, please contact STIHL customer support or an authorized service center.

9. Specifications

Feature	Detail
Model	AL 101
Part Number	4850-430-2520
Input Voltage	230 V AC
Charging Current	1.6 A
Power Consumption	0.1 kW
Compatible Batteries	STIHL AP and AK series
Weight	0.7 kg (1.41 pounds)
Dimensions (Package)	8.54 x 7.28 x 4.8 inches
Cooling	Passive
Safety Standard	UL Met

10. Warranty and Support

For warranty information, please refer to the warranty card included with your product or visit the official STIHL website. Keep your proof of purchase for warranty claims.

For technical support, spare parts, or service, please contact your authorized STIHL dealer or visit the official STIHL support page. When contacting support, please have your product model (AL 101) and part number (4850-430-2520) ready.

Online Resources:

- Official STIHL Website: www.stihl.com

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