DGFTB S01-LI-148-3200

DGFTB 3400mAh Li-Ion Replacement Battery User Manual

Model: S01-LI-148-3200

1. Introduction

This manual provides essential instructions for the safe and effective use of your DGFTB 3400mAh Li-Ion replacement battery. This battery is designed to provide reliable power for compatible Ecovacs Deebot robot vacuum cleaners.

1.1 Product Overview

The DGFTB 3400mAh Li-Ion battery is a 14.4V replacement power source featuring a 2-prong connector. It is engineered with Grade A cells and built-in circuit protection to enhance safety and extend battery life.

1.2 Compatibility

This replacement battery is fully compatible with the following Ecovacs Deebot robot vacuum cleaner models:

- **Deebot T5 Series:** T5 Neo, T5 Fun, T5 Plus
- **Deebot N5 Series:** N5, N5 Go, N5 Hero, N5 Power
- **Deebot N8 Series:** N8, N8 PRO
- **Deebot Ozmo Series:** Ozmo 900, Ozmo 901, Ozmo 905, Ozmo 920, Ozmo 937
- **Other Deebot Models:** DJ35, DJ65, DG31, DG36, DG70, DV33, DV35, DV37, DV66, DX33, DX55, DN56, DN58



Figure 1: Compatible Ecovacs Deebot Robot Vacuum Models.

This image displays the DGFTB replacement battery alongside several compatible Ecovacs Deebot robot vacuum models, illustrating the range of devices this battery supports.

2. Safety Information

Please read and adhere to the following safety precautions to prevent injury or damage to the battery and your device:

- **Do not disassemble, crush, puncture, or dispose of the battery in fire.**
- **Do not use the battery if it shows signs of serious bulging, leakage, or damage.**
- **Avoid exposing the battery to high-temperature environments.**
- **Do not use the battery after it has been immersed in water.**

- **Charge the battery only with the specified charger for your robot vacuum, within a temperature range of 32-104°F (0-40°C).**
- **Keep the battery out of reach of children and pets.**



Figure 2: DGFTB Battery with Safety Warnings.

This image shows the DGFTB replacement battery, highlighting the label which includes important safety warnings and handling instructions in multiple languages.

3. Setup and Installation

Follow these general steps to replace the battery in your Ecovacs Deebot robot vacuum. Specific steps may vary slightly depending on your vacuum model. Always refer to your robot vacuum's original manual for detailed instructions on accessing the battery compartment.

1. **Power Off:** Ensure your robot vacuum is completely powered off and disconnected from its charging dock.
2. **Access Battery Compartment:** Turn the robot vacuum upside down. Locate and open the battery compartment cover, usually secured by screws.
3. **Remove Old Battery:** Carefully disconnect the old battery's connector from the robot vacuum's port. Remove the old battery.
4. **Install New Battery:** Insert the new DGFTB replacement battery into the compartment.
5. **Connect Cable:** Connect the 2-prong connector of the new battery to the corresponding port in the robot vacuum. **Ensure the cable is fixed properly and securely connected.**A loose connection can prevent the battery from being detected or charging correctly.

6. **Close Compartment:** Securely close the battery compartment cover and fasten any screws.



Figure 3: Battery and Installation Tools.

This image displays the DGFTB replacement battery, accompanied by a small screwdriver and a cleaning brush, which are typically used during the battery replacement process for robot vacuums.

4. Operating Instructions

4.1 Initial Charge

After installing the new battery, place your robot vacuum on its charging dock. Allow it to fully charge before its first use. This initial charge helps calibrate the battery and ensures optimal performance.

4.2 Normal Usage

Use your robot vacuum as you normally would. The battery is designed to provide consistent power throughout its cleaning cycle.

4.3 Battery Protection Features

The DGFTB battery includes multiple built-in protection features to ensure safe operation:

- Charging Under-Voltage Protection
- Charging Over-Temperature Protection
- Charging Over-Current Protection
- Output Over-Current Protection
- Output Short-Circuit Protection
- Output Over-Heat Protection
- Output Over-Discharge Protection
- Output Over-Voltage Protection
- Discharge Over-Temperature Protection



Figure 4: Battery Protection Mechanisms.

This image visually represents the comprehensive protection mechanisms integrated into the DGFTB battery, including safeguards against over-charging, over-discharging, and extreme temperatures.

5. Maintenance

5.1 Storage

If storing the battery for an extended period, ensure it is charged to approximately 50% capacity and stored in a cool, dry place away from direct sunlight and extreme temperatures. Avoid storing fully charged or completely depleted batteries for long durations.

5.2 General Care

Keep the battery and its connector clean and free from dust or debris. Do not expose the battery to moisture.



Figure 5: Battery Connector Detail.

This image provides a detailed side view of the DGFTB replacement battery, emphasizing the 2-prong connector which must be kept clean and properly connected.

6. Troubleshooting

6.1 Battery Not Detected or Level Not Displayed

If the robot vacuum does not detect the battery or the battery level is not displayed normally after installation:

- **Check Cable Connection:** Power off the vacuum, open the battery compartment, and carefully re-check the battery cable connection. Ensure it is firmly and properly seated.

- **Restart Vacuum:** After re-connecting, close the compartment and restart the robot vacuum.
- **Initial Charge:** Place the vacuum on its charging dock for a full charge cycle.

6.2 Short Run Time

If the battery does not hold a charge long enough to complete a cleaning cycle:

- **Full Charge Cycle:** Ensure the battery has undergone several full charge and discharge cycles to optimize its performance.
- **Charging Environment:** Verify that the charging dock is functioning correctly and the vacuum is making proper contact.
- **Vacuum Maintenance:** A dirty robot vacuum (clogged brushes, filters) can draw more power, reducing battery life. Perform regular maintenance on your robot vacuum.
- **Battery Age:** All rechargeable batteries have a finite lifespan. If the battery is old, its capacity may naturally diminish over time.

7. Specifications

Feature	Specification
Battery Type	Lithium Ion (Li-ion)
Nominal Voltage	14.4V
Max Charge Voltage	16.6V
Nominal Capacity	3400mAh
Rated Capacity	3350mAh (38.24Wh)
Battery Plug	2 Prongs Connector
Part Number	S01-LI-148-3200
Product Dimensions	5.28 x 1.42 x 0.79 inches
Item Weight	7.7 ounces



Figure 6: Battery Label with Specifications.

This image provides a close-up view of the DGFTB battery's label, clearly displaying its technical specifications including nominal voltage, maximum charge voltage, and capacity.



Figure 7: Quality Components and Construction.

This image highlights the internal quality components of the DGFTB battery, such as the intelligent control chip, high-quality cable, and individual battery cells, emphasizing its robust construction.

8. Warranty and Support

For any questions or concerns regarding your DGFTB replacement battery, please contact our customer service team. We offer 7x24 hours email communication support.

Please refer to your purchase documentation for specific warranty terms and conditions.

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